SERVICE DATA
FILE NO. 170 -303

TOSHIBA

STEREO AMPLIFIER DECK

SJ-3428

SPECIFICATIONS

Amplifier

Rated output power:	30 W per channel, 10% THD, at 8 ohms, 1 kHz
Total harmonic distortion:	0.2% at half rated output power, 1 kHz
Input terminals:	PHONO, CD, AUX
Output terminals:	Headphones, speakers, tuntable power source
Input/Output terminal:	Tuner
Graphic equalizer:	Center frequencies: 63 Hz, 250 Hz, 1 kHz, 4 kHz, 12 kHz Adjustment range: ±10 dB
Signal-to-noise ratio:	PHONO: 72 dB CD: 85 dB AUX: 85 dB

Cassette Deck

Track system:	4-track, 2-chnnel stereo
Recording system:	AC bias (85 kHz)
Heads:	Deck A: PB: 1 Deck B: Rec/PB: 1 Erase: 1
Wow and flutter:	0.15% (WRMS)
Frequency response:	40–16,000 Hz (Chrome position tape)
Signal-to-noise ratio:	56 dB (Chrome position tape)
Motor:	Electronically controlled DC type: 2

General

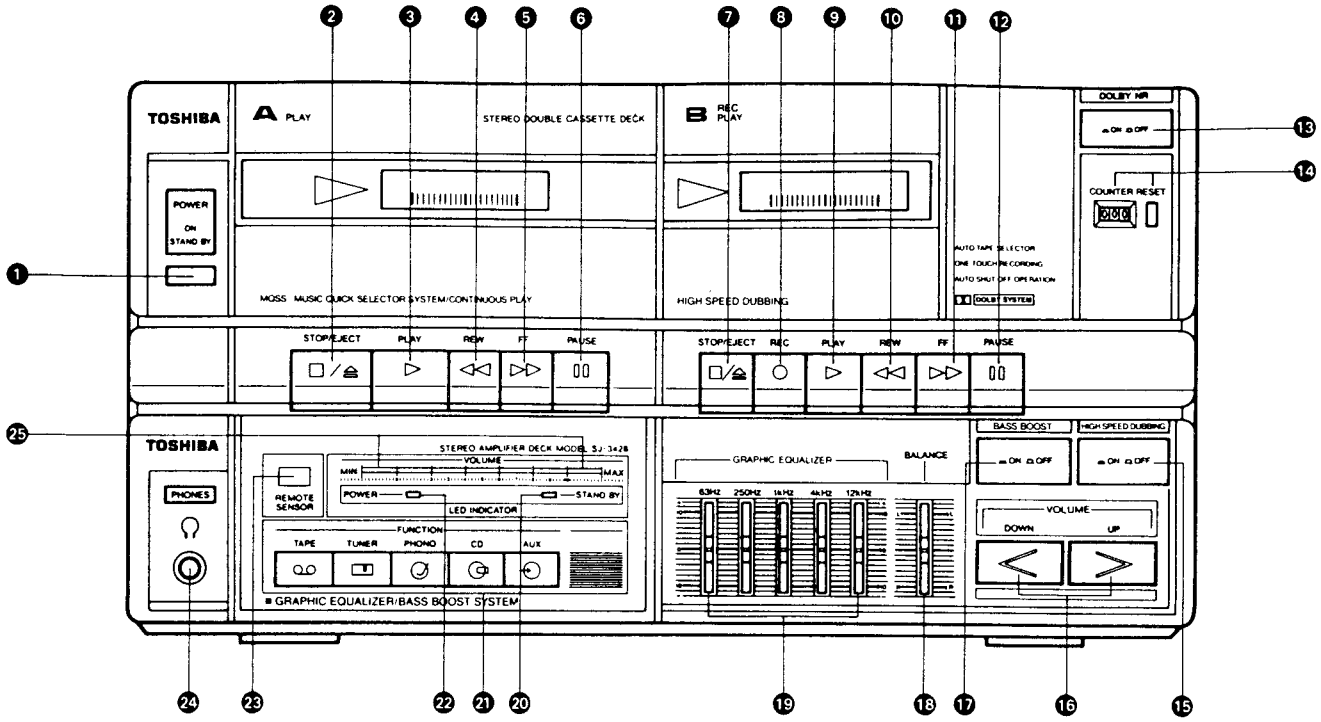
Power supply:	AC 220V∿, 50 Hz (Europe) AC 240V∿, 50 Hz (U.K., Australia)
Power consumption:	150 watts
Dimensions:	340(W)x198(H)x265(D) mm
Weight:	5.4 kg

Specifications are subject to change without notice.

K-TE, TU, AY

PRINTED IN JAPAN 22905857 Aug., 1988 Ⓢ

OPERATING CONTROLS



❶ POWER switch
Note: In the STAND BY position, the unit remains connected to the main power supply. Therefore, disconnect the power cord when the unit is not going to be used for a long time.

❷ ■/⏏ STOP/EJECT button (DECK A)
Press this button to stop tape transport during any of the tape transport modes. Press this button again to open the cassette door after tape transport has been stopped.

❸ ▶ PLAY button (DECK A)

❹ ◀◀ REW button (DECK A)
Press to wind the tape rapidly backward and to use the MQSS function

❺ ▶▶ FF button (DECK A)
Press to wind the tape rapidly forward and to use the MQSS function

❻ ▮▮ PAUSE button (DECK A)
Press this button to temporarily stop tape transport during the play mode. Press again to continue playback.

❼ ■/⏏ STOP/EJECT button (DECK B)

❽ ● REC button
Press this button to begin recording.

❾ ▶ PLAY button (DECK B)

❿ ◀◀ REW button (DECK B)

⓫ ▶▶ FF button (DECK B)

⓬ ▮▮ PAUSE button (DECK B)
Press this button to temporarily stop tape transport during the play and record modes. Press again to continue playback or recording.

⓭ DOLBY* NR button
Depress to the ⎓ ON position to make a recording using Dolby Noise Reduction or play back a Dolby NR encoded tape. This button switches Dolby NR on and off in both DECK A and B. It does not operate during dubbing.

* Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY" and the double-D symbol DD are trademarks of Dolby Laboratories Licensing Corporation.

⓮ TAPE COUNTER and RESET button
The tape counter provides a means of locating passages on the tape. When starting a recording, set the counter "000" by depressing the reset button.

⓯ HIGH SPEED DUBBING button
Press this button to set the ⎓ ON position for high speed dubbing. Press again to set the ⎍ OFF position for normal speed dubbing.

⓰ VOLUME control buttons
The volume increases when the UP button is pressed and decreases when the DOWN button is pressed. Volume changes continuously if the button is held down.

⓱ BASS BOOST button
Press this button to emphasize low tones.

⓲ BALANCE control
This control adjusts the relative volume levels of the left and right speaker systems.

⓳ GRAPHIC EQUALIZER level controls
These level controls adjust response in the five frequency bands centered at the frequency shown above each control. Adjust these controls to produce the desired sonic effect. If no alteration of sound quality is required, set all five controls to the center "0" position.

⓴ STAND BY indicator
Goes out when the power is turned on, and illuminates when the power is turned off.

㉑ FUNCTION Selector buttons
Use these buttons to listen to TAPE, TUNER, PHONO, CD or AUX.

㉒ POWER indicator

㉓ Remote Control Sensor

㉔ PHONES jack
A set of stereo headphones having a 6.3 mm plug can be connected to this jack.

㉕ VOLUME indicator
Indicates the present volume level.

Connections

Note:
Do not switch power on or plug in the power cord until all connections have been completed.
If a turntable is to be placed above the amplifier-deck and tuner, place the turntable on the turntable holder included with the tuner (option) after attaching the holder to the rear panel of the tuner.

Connecting the tuner
Connect the connection cable extending from the tuner's rear panel to the TUNER TERMINAL on the rear panel of the amplifier-deck.

Connecting the turntable
- Connect the turntable to the rear panel PHONO INPUT jacks of this unit being sure left (white) and right (red) are correctly connected.
- Connect the POWER cord of the turntable to the TURNTABLE POWER SOURCE jack on the rear panel of this unit.

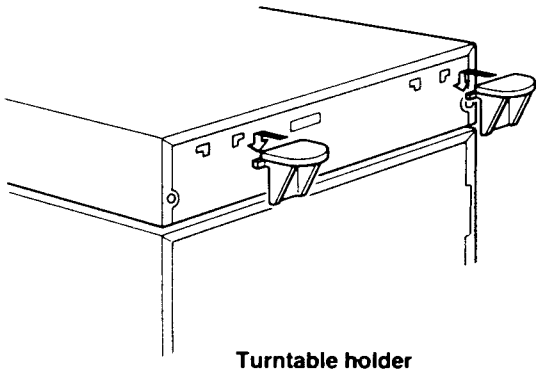
Connecting the compact disc player
- Use the CD INPUT jacks to connect a compact disc player.
- When using a compact disc player (option), connect the compact disc player's SYNCHRO CONTROL jack and this unit's CD SYNCHRO CONTROL JACK using the connecting cord provided with the compact disc player.

Connecting the Audio equipment
Use the AUX INPUT jacks to connect external equipment.

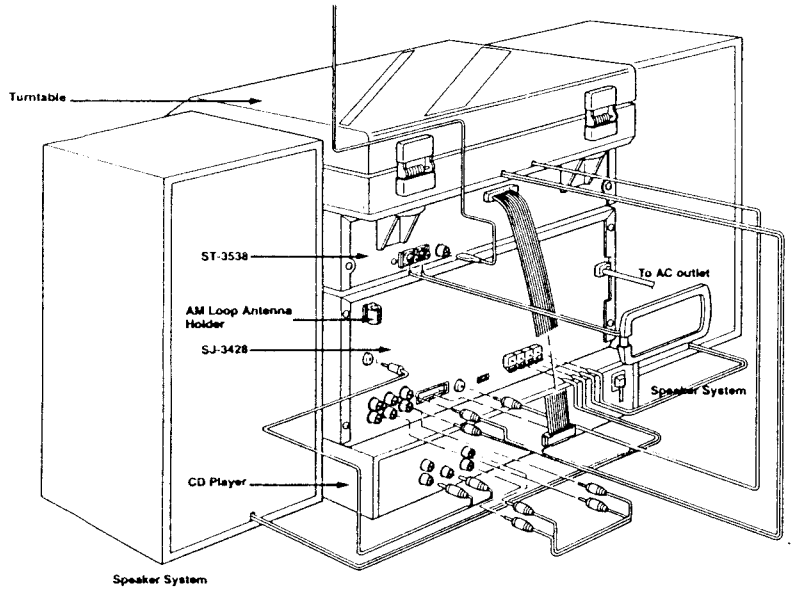
Connecting the speakers
- Use only speaker systems having an impedance of 8 to 16 ohms with this unit.
- Remove the speaker cable coating to expose a section of wire about 6 to 10 mm long. Then twist the strands of wire together. Connect the positive (+) speaker cable to the red speaker jack and the negative (−) speaker cable to the black speaker jack.

Connecting the AM loop antenna
- An AM loop antenna holder is located on the rear panel of this unit. Attach the loop antenna (included with optional tuner) to this holder and connect the loop antenna wire to the AM antenna terminals of the tuner. Then set the antenna in the angle in which reception quality is best.
- If reception is still not satisfactory, remove the antenna from the rear panel holder and place it in the location where reception quality is best. If the connection wire is not long enough, replace with a wire of sufficient length.

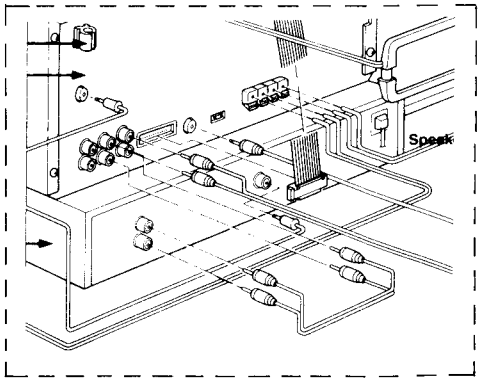
Locating the unit
In order to obtain optimum performance from this unit, be sure to observe the following precautions when selecting its location.
- Place the unit on a flat surface that is not subject to vibrations.
- Avoid direct sunlight and other locations that are directly exposed to heating appliances and other sources of heat.
- Avoid dusty locations.
- Avoid high humidity and locations where ventilation is poor.
- Do not expose this unit to very low temperatures.
- Do not place the unit near the speaker systems since howling may result.



Turntable holder



Europe/U.K. Model

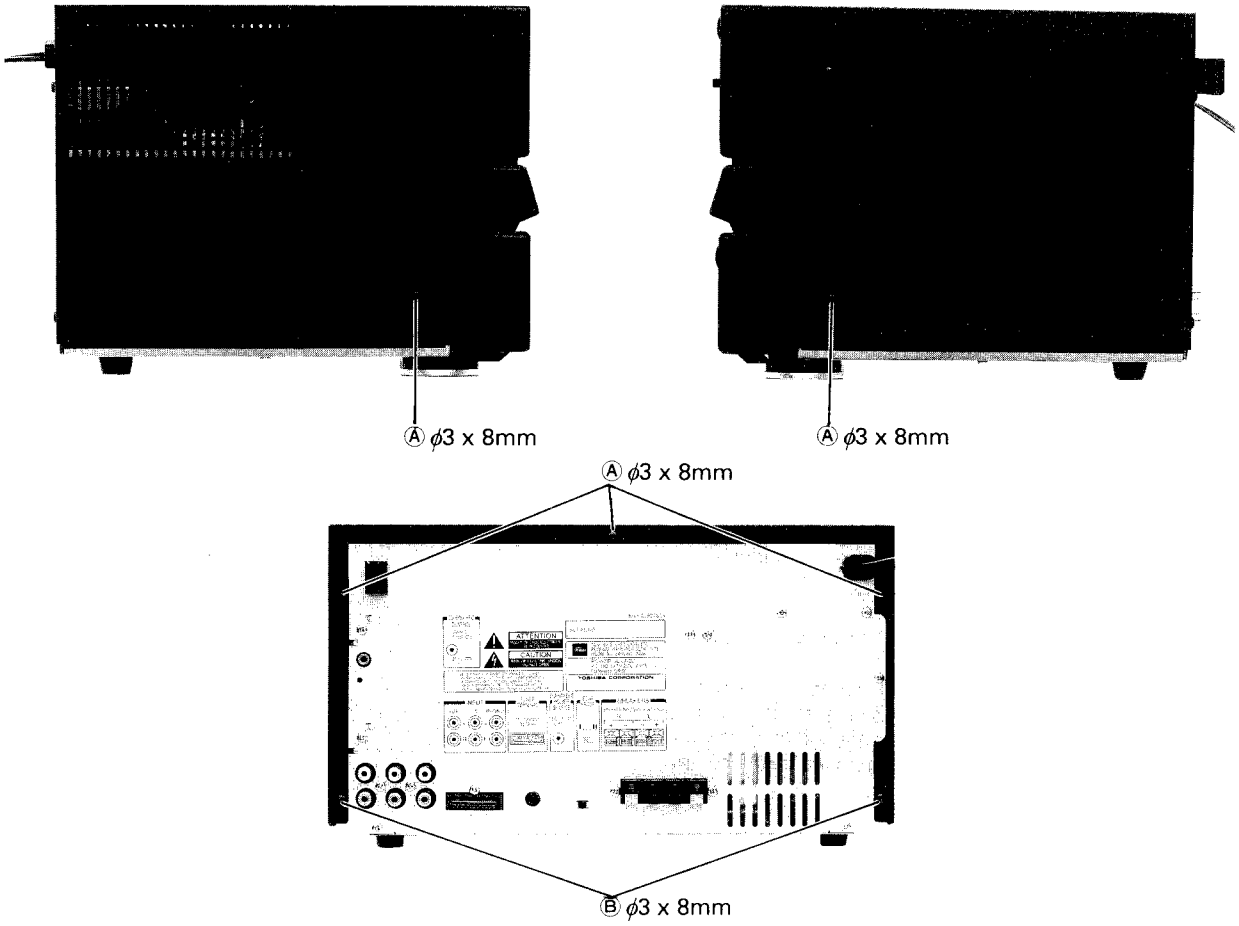


Australia Model

DISASSEMBLY INSTRUCTIONS

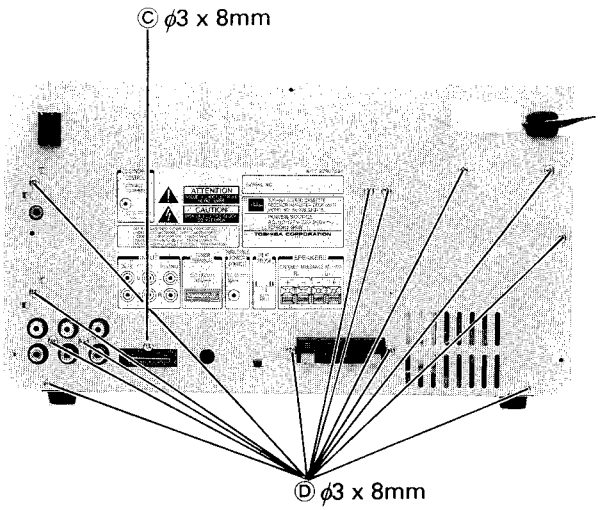
TOP COVER REMOVAL

1. Remove seven screws Ⓐ and Ⓑ.



JACK PLATE REMOVAL

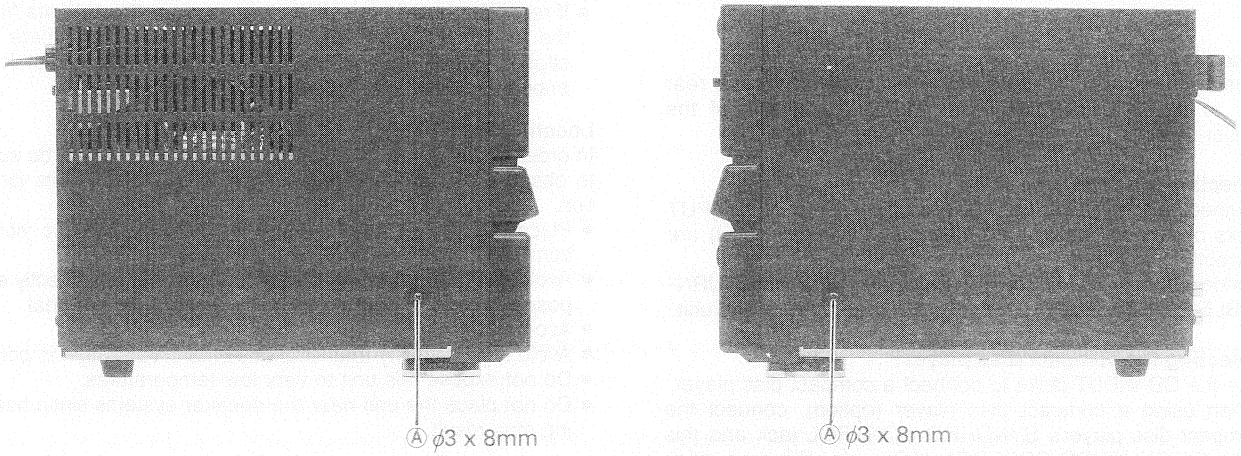
1. Remove ten screws Ⓒ and Ⓓ.

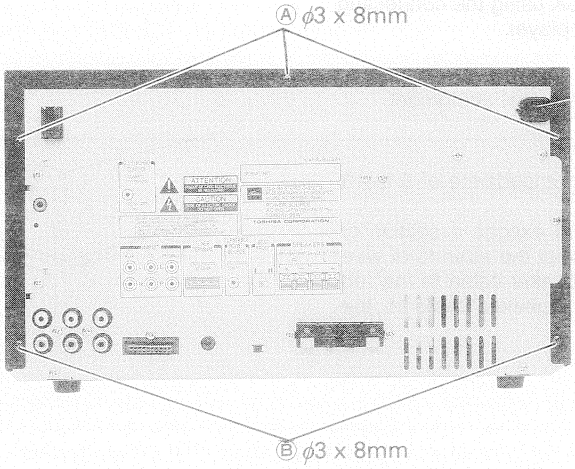


DISASSEMBLY INSTRUCTIONS

TOP COVER REMOVAL

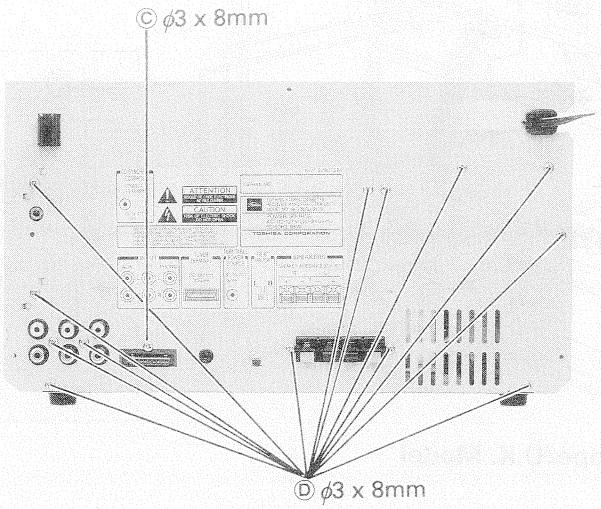
1. Remove seven screws Ⓐ and Ⓑ.





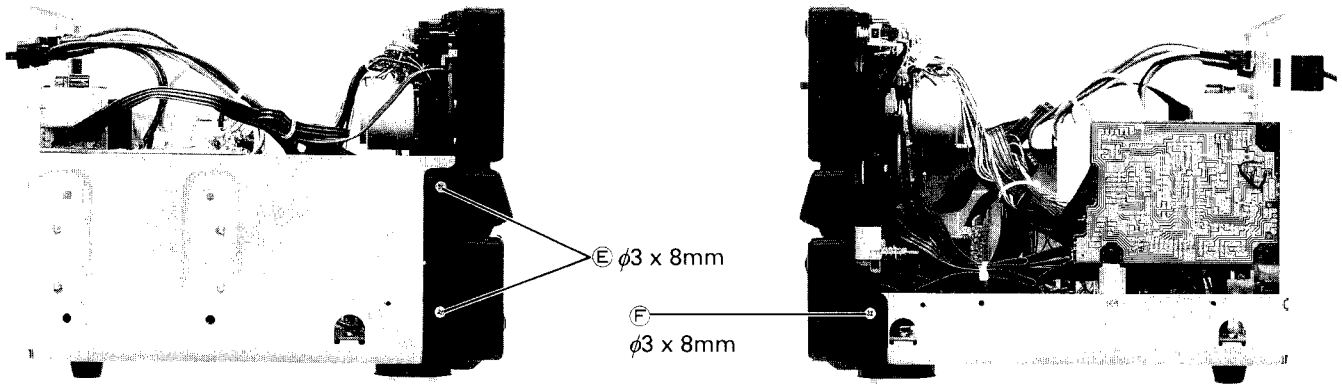
JACK PLATE REMOVAL

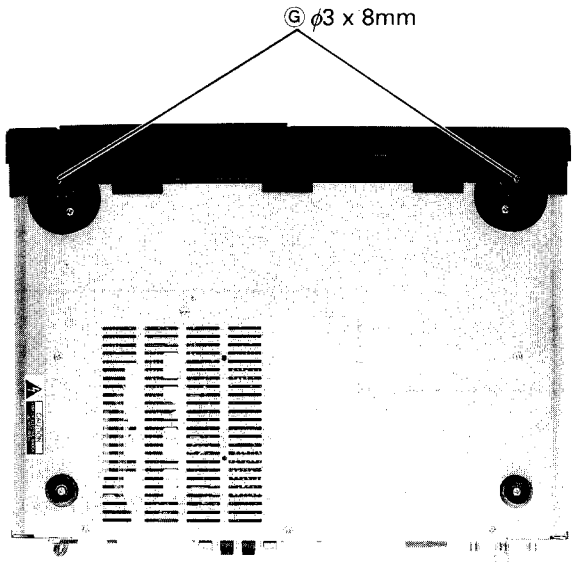
1. Remove ten screws Ⓒ and Ⓓ.



FRONT PANEL ASSEMBLY REMOVAL

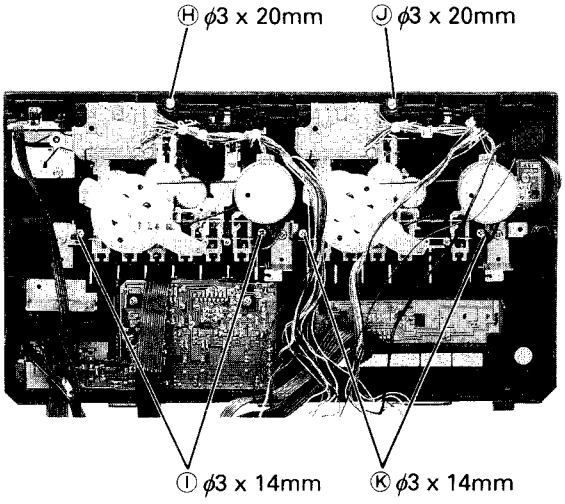
1. Remove three screws Ⓔ and Ⓕ.
2. Remove two screws Ⓖ.



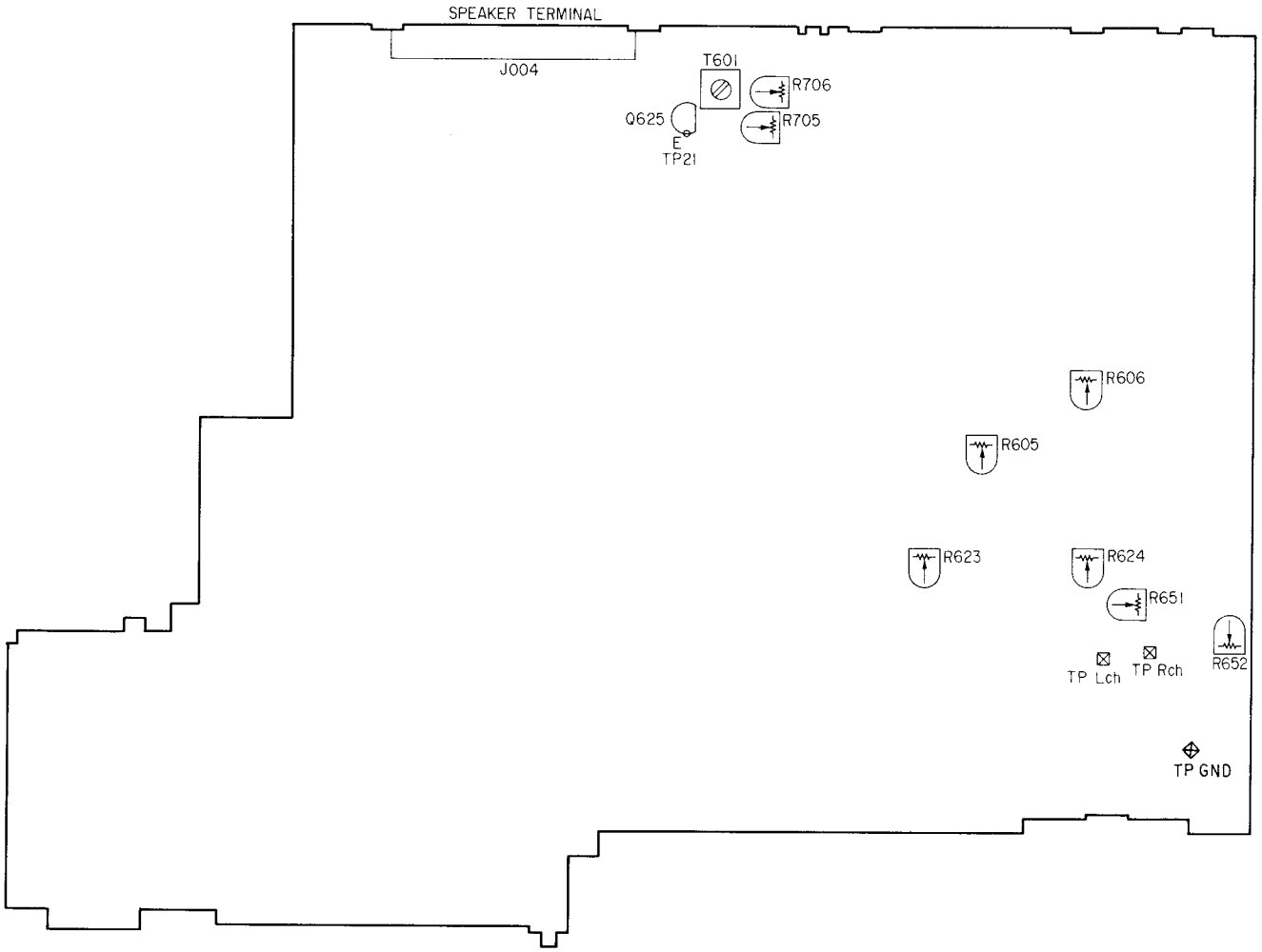


MECHANISM ASSEMBLY REMOVAL

1. Open cassette holder by pushing EJECT Button.
2. Remove three screws Ⓙ and Ⓚ.
3. Remove three screws Ⓗ and Ⓘ.



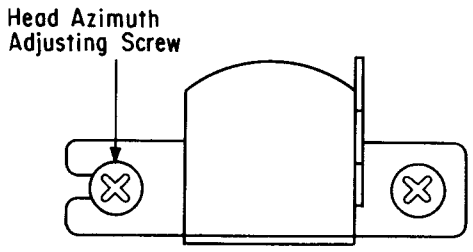
ADJUSTMENTS



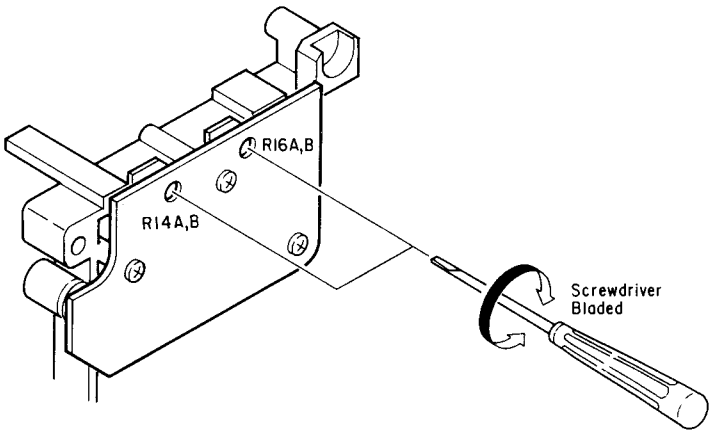
TEST EQUIPMENTS

1. VTVM
2. Oscilloscope
3. Frequency Counter
4. Test Tape
   ATT-111 (3 kHz)
   ATT-114 (10 kHz)
   ATT-150 (400 Hz)
   AC-512 (Chrome)

1. R/P HEAD AZIMUTH ADJUSTMENT

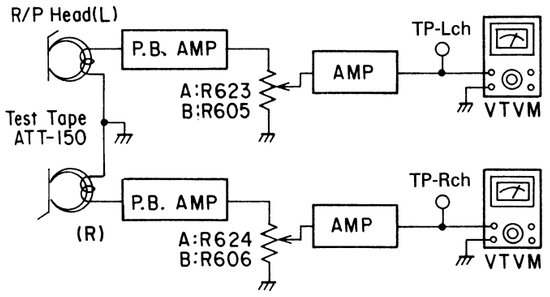


2. TAPE SPEED ADJUSTMENT

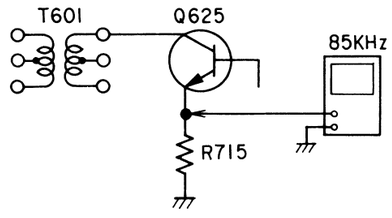


	Item	Reference Value	Tape	Volume			Switch		Adjustment Point	Test Point	Note
				Graphic Equalizer	Balance	Main	Dolby	Beat Proof			
1	Head Azimuth Adjustment [DECK A, DECK B]	L, R ch Peak	ATT-114	Center	Center	Center	OFF	I	Head Screw	TP-Lch TP-Rch	After adjustment apply screw lock at head screw. If L and R ch peak values are different, take the midium value.
2	Tape Speed Adjustment [DECK A, DECK B] High Speed	6000 ±60 Hz	ATT-111	Center	Center	Center	OFF	I	DECK A, DECK B R16A, B	SP-OUT	After playback, short-circuit TP HI-SP and +B.
	Tape Speed Adjustment [DECK A, DECK B] Standard Speed	3000 ±30 Hz	ATT-111	Center	Center	Center	OFF	I	DECK A, DECK B R14A, B	SP-OUT	Make this adjustment after high speed adjustment is completed 0 ∿ −30 Hz for DECK B to A.
3	Playback Sensitivity Adjustment [DECK A, DECK B]	245mV ±1 dB	ATT-150	Center	Center	Center	OFF	I	B ← R605, R606 A ← R623, R624	TP-Lch TP-Rch	DECK B should be adjusted after DECK A adjustment.
4	Osc. Frequency Adjustment [DECK B]	85 ±0.5 kHz	AC-512	Center	Center	Center	OFF	II	T601	TP-21 Q625 Emitter	In the record mode
5	Rec/Play Sensitivity Adjustment [DECK B]	Output ±1 dB	AC-512	Center	Center	Center	OFF	II	R651, R652	SP OUT	333 Hz 500mV input from CD.
6	Rec/Play Frequency Response Adjustment [DECK B]	Output ±5 dB	AC-512	Center	Center	Center	OFF	II	R705, R706	SP OUT	333 Hz – 10 kHz 50mV input from CD.

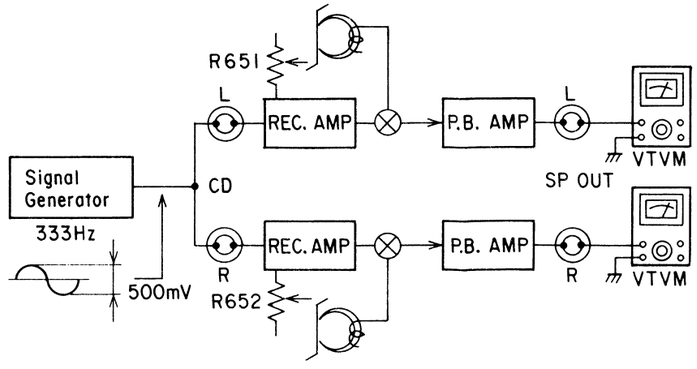
3. PLAYBACK SENSITIVITY ADJUSTMENT



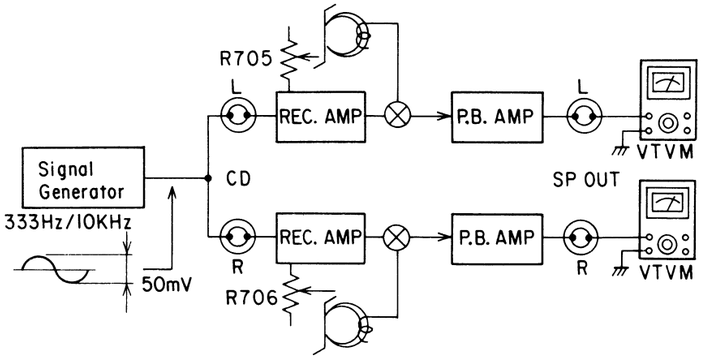
4. OSCILLATOR FREQUENCY ADJUSTMENT



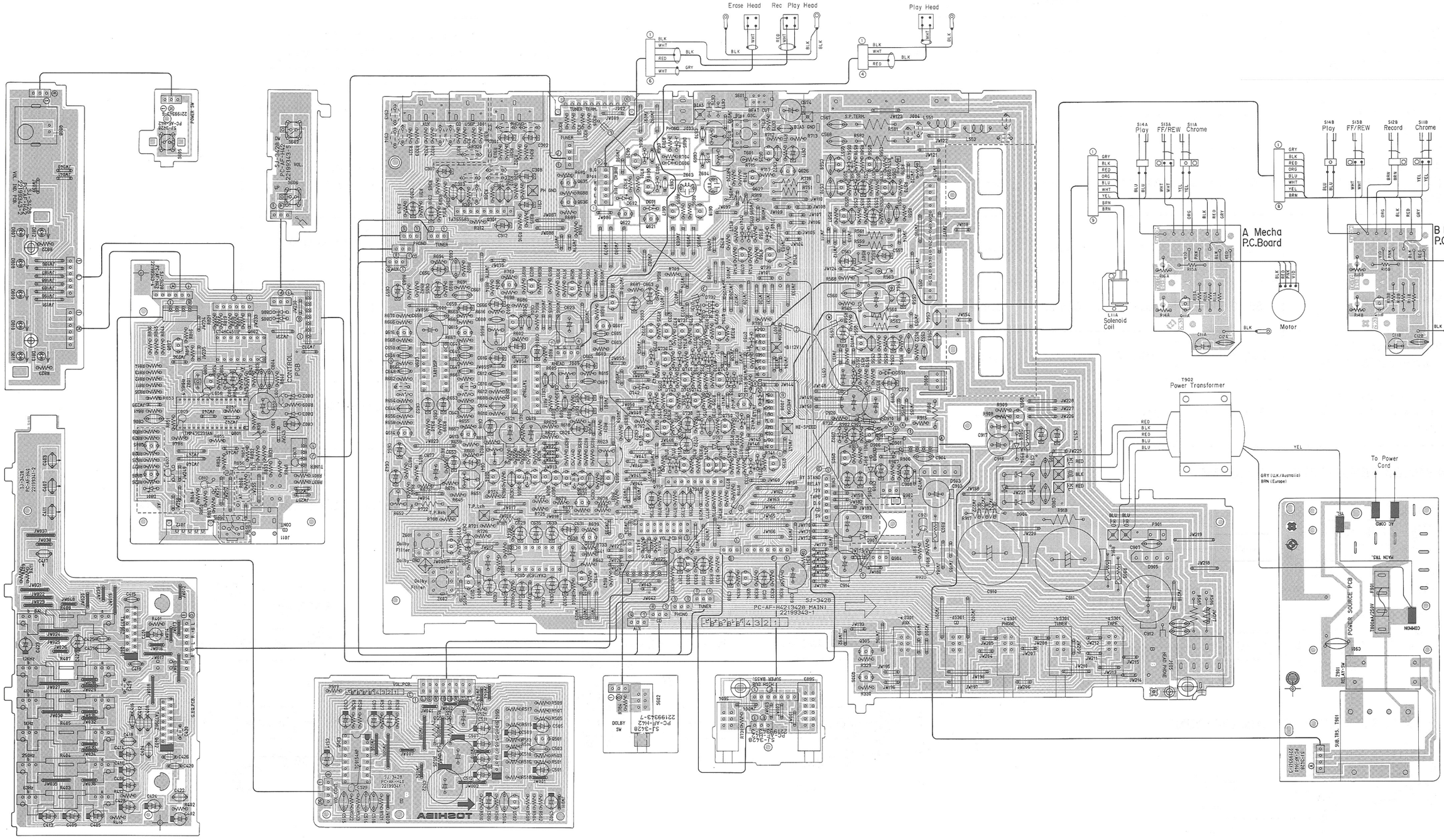
5. R/P SENSITIVITY ADJUSTMENT



6. R/P FREQUENCY RESPONSE ADJUSTMENT



ELECTRICAL PARTS LOCATIONS



SCHEMATIC DIAGRAM

Q301

1	10.18V
2	-0.02V
3	0V
4	0V
5	10.61V
6	0V
7	0V
8	-0.02V
9	10.18V

Q303

E	1.34V
C	5.65V
B	1.92V

Q304

E	1.34V
C	5.65V
B	1.92V

Q305

E	0V
C	0V
B	0.6V

Q306

E	0V
C	0V
B	0.6V

Q401

1	4.28V
2	4.96V
3	9.80V
4	0V
5	4.28V
6	4.28V
7	4.28V
8	4.28V
9	5.58V
10	5.58V
11	5.58V
12	5.58V
13	5.63V
14	4.96V
15	4.94V
16	5.58V

Q402

1	4.28V
2	4.91V
3	9.80V
4	0V
5	4.27V
6	4.27V
7	4.27V
8	4.27V
9	5.53V
10	5.53V
11	5.53V
12	5.53V
13	5.57V
14	4.91V
15	4.89V
16	5.53V

Q501

E	1.5V
C	4.8V
B	2.1V

Q502

E	1.5V
C	4.8V
B	2.1V

Q504

1	6.59V
2	0.01V
3	0.01V
4	0.01V
5	-6.9V
6	0.01V
7	0.01V
8	0.01V
9	6.59V

Q503

1	-5.4V
2	0V
3	0V
4	0V
5	0V
6	0V
7	0.02V
8	0V
9	4.35V
10	0.02V
11	0V
12	0V
13	0V
14	0V
15	0V
16	5.24V

Q551

1	0.17V
2	0.17V
3	0V
4	-30.7V
5	-1.37V
6	0V
7	-32.6V
8	-33.3V
9	-33.4V
10	0V
11	-32.0V
12	-33.7V
13	-1.0V
14	0V
15	0.26V
16	0.26V
17	V
18	V

Q553

E	-0.19V
C	0.27V
B	-0.19V

Q554

E	-0.24V
C	0.23V
B	-0.24V

Q555

E	-0.03V
C	-28.1V
B	0.03V

Q556

E	-0.04V
C	-28.4V
B	-0.04V

Q557

E	0V
C	28.5V
B	0V

Q558

E	-28.5V
C	0V
B	-28.5V

Q601

E	2.91V
C	2.91V
B	2.75V

Q602

E	2.91V
C	2.91V
B	2.75V

Q603

E	0V
C	-4.46V
B	0V

Q604

E	0V
C	-4.46V
B	0V

Q605

E	0V
C	0V
B	0V

Q606

E	0V
C	0V
B	0V

Q607

E	0.66V
C	0V
B	0V

Q608

E	0.66V
C	0V
B	0V

Q609

E	0.65V
C	0V
B	0V

Q610

E	0.65V
C	0V
B	0V

Q611

E	0V
C	0V
B	0V

Q612

E	0V
C	0V
B	0V

Q613

E	2.52V
C	9.08V
B	2.72V

Q614

E	2.70V
C	9.08V
B	2.52V

Q615

E	0.07V
C	0V
B	0V

Q616

E	0.07V
C	0V
B	0V

Q617

E	0V
C	-9.15V
B	0V

Q618

E	0V
C	9.15V
B	0V

Q619

E	0V
C	4.14V
B	0V

Q620

E	0V
C	4.15V
B	0V

Q621

E	0V
C	0V
B	0V

Q622

E	0V
C	0V
B	0V

Q623

E	0V
C	9.15V
B	0V

Q624

E	0V
C	-9.15V
B	0V

Q625

E	0V
C	9.39V
B	0V

Q626

E	8.89V
C	9.39V
B	9.39V

Q627

E	0V
C	8.88V
B	0V

Q628

E	0V
C	-11.07V
B	0V

Q629

E	0.11V
C	3.29V
B	0V

Q631

E	0V
C	-11.0V
B	0V

Q632

1	8.51V
2	2.23V
3	0.05V
4	2.22V
5	2.13V
6	2.16V
7	2.15V
8	0V
9	2.18V
10	0V
11	2.13V
12	2.15V
13	2.13V
14	2.22V
15	0.69V
16	2.23V

Q633

1	V
2	2.83V
3	2.83V
4	2.84V
5	2.76V
6	2.83V
7	2.83V
8	0V
9	0V
10	2.83V
11	2.83V
12	2.68V
13	2.83V
14	2.83V
15	0V
16	8.75V

Q634

1	5.10V
2	10.05V
3	5.10V
4	5.12V
5	0V
6	5.16V
7	0.39V
8	5.18V
9	5.18V
10	0.41V
11	5.17V
12	10.71V
13	1.21V
14	5.10V
15	0V
16	5.10V

Q730

E	0V
C	0V
B	0V

Q731

E	-0.44V
C	0.67V
B	0.13V

Q732

E	0.66V
C	0V
B	0V

Q733

E	-0.44V
C	0.15V
B	0V

Q734

E	-0.12V
C	0.13V
B	0.09V

Q735

E	0V
C	0.63V
B	0V

Q736

E	0V
C	-0.06V
B	0V

Q737

E	0.17V
C	8.63V
B	0V

Q740

E	0V
C	0V
B	0V

Q741

E	0V
C	0V
B	0V

Q742

E	0V
C	0.44V
B	-0.22V

Q743

E	0V
C	10.74
B	0V

Q744

E	0V
C	0V
B	0.44V

Q745

E	0V
C	0V
B	0V

Q746

E	0V
C	0.03V
B	0.61V

Q747

E	0V
C	9.39V
B	0V

Q748

E	0V
C	0V
B	0.44V

Q749

E	0.43V
C	0V
B	0V

Q750

E	-0.1V
C	0V
B	0V

Q751

1	0.44V
2	0V
3	-0.02V
4	0V
5	0V
6	0V
7	0V
8	-0.44V
9	-0.45V

Q801

1	0.01V
2	0.01V
3	0.01V
4	4.47V
5	0V
6	5.55V
7	0V
8	5.55V
9	5.48V
10	0V
11	5.1V
12	0.03V
13	0V
14	0.02V
15	0V
16	0.02V
17	0.03V
18	4.79V
19	0V
20	0V
21	2.36V
22	2.53V
23	4.86V
24	5.3V
25	4.91V
26	0.1V
27	0.03V
28	0.03V
29	0.01V
30	4.93V

Q802

1	0.02V
2	4.79V
3	5.55V
4	5.55V
5	0.02V
6	4.78V
7	0.03V
8	0.01V
9	0.18V
10	0.19V
11	0.04V
12	0.19V
13	0.20V
14	0.05V
15	0.20V
16	5.55V

Q804

1	5.55V
2	0V
3	5.35V

Q805

E	5.55V
C	0.01V
B	5.49V

VF/AY ONLY

Q806

E	0V
C	5.55V
B	0V

VF/AY ONLY

Q807

E	4.79V
C	4.78V
B	4.18V

Q808

V_{BB}	5.55V
OUT	4.47V
GND	0V

Q901

E	0V
C	0.74V
B	1.31V

Q902

E	11.2V
C	17.7V
B	11.9V

Q903

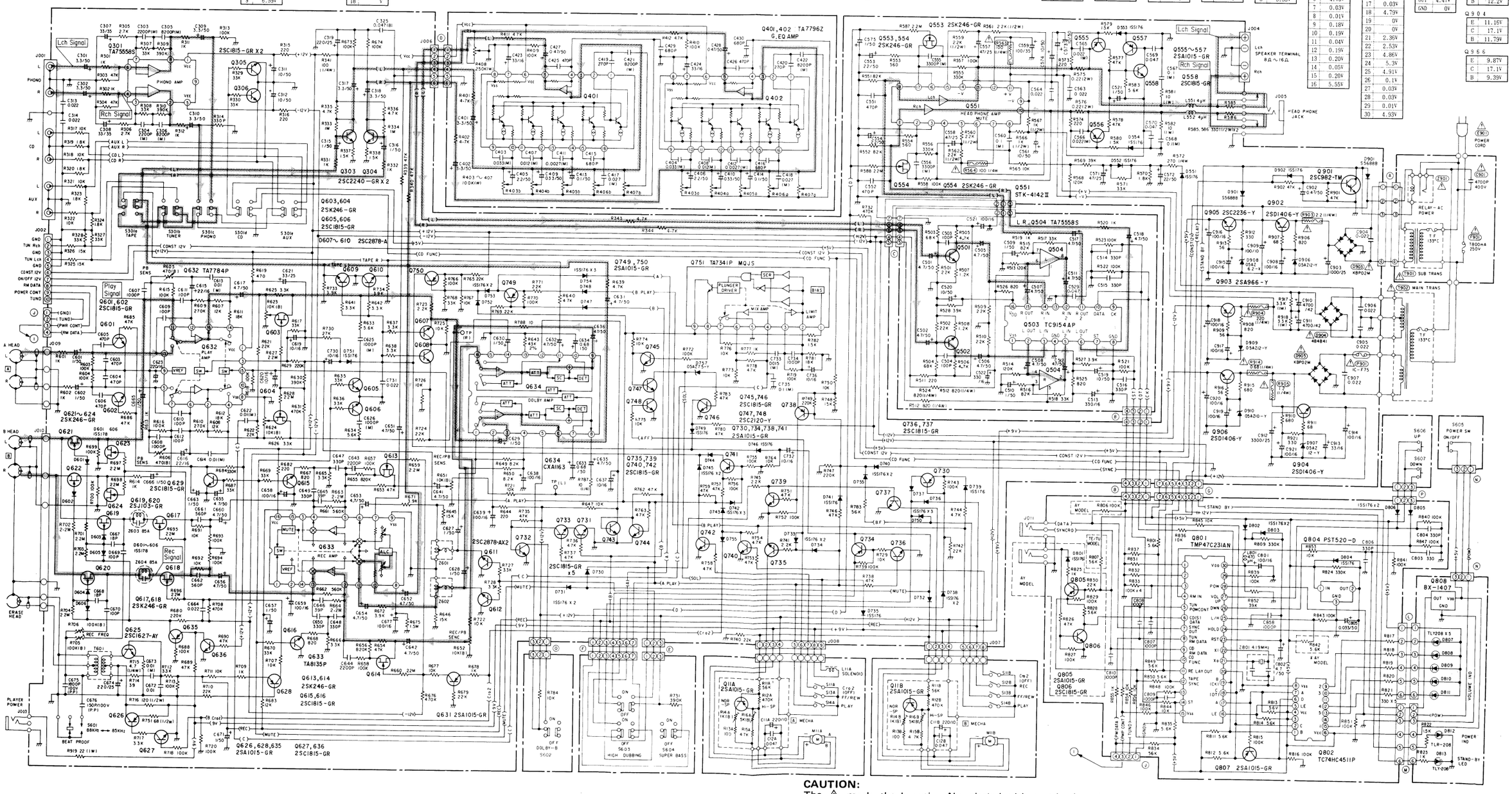
E	11.6V
C	27.2V
B	12.1V

Q904

E	11.6V
C	33.0V
B	12.2V

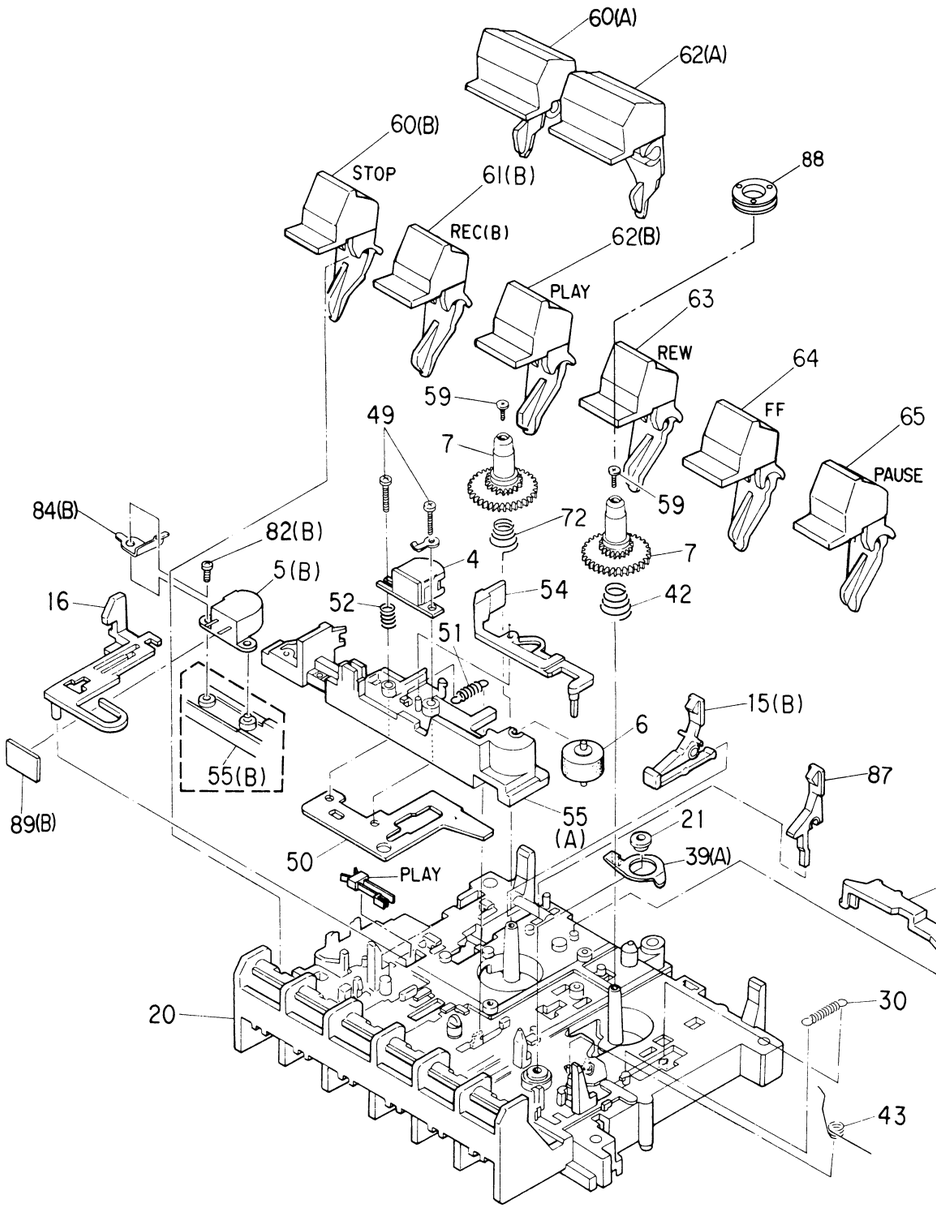
Q966

E	9.87V
C	17.1V
B	9.39V



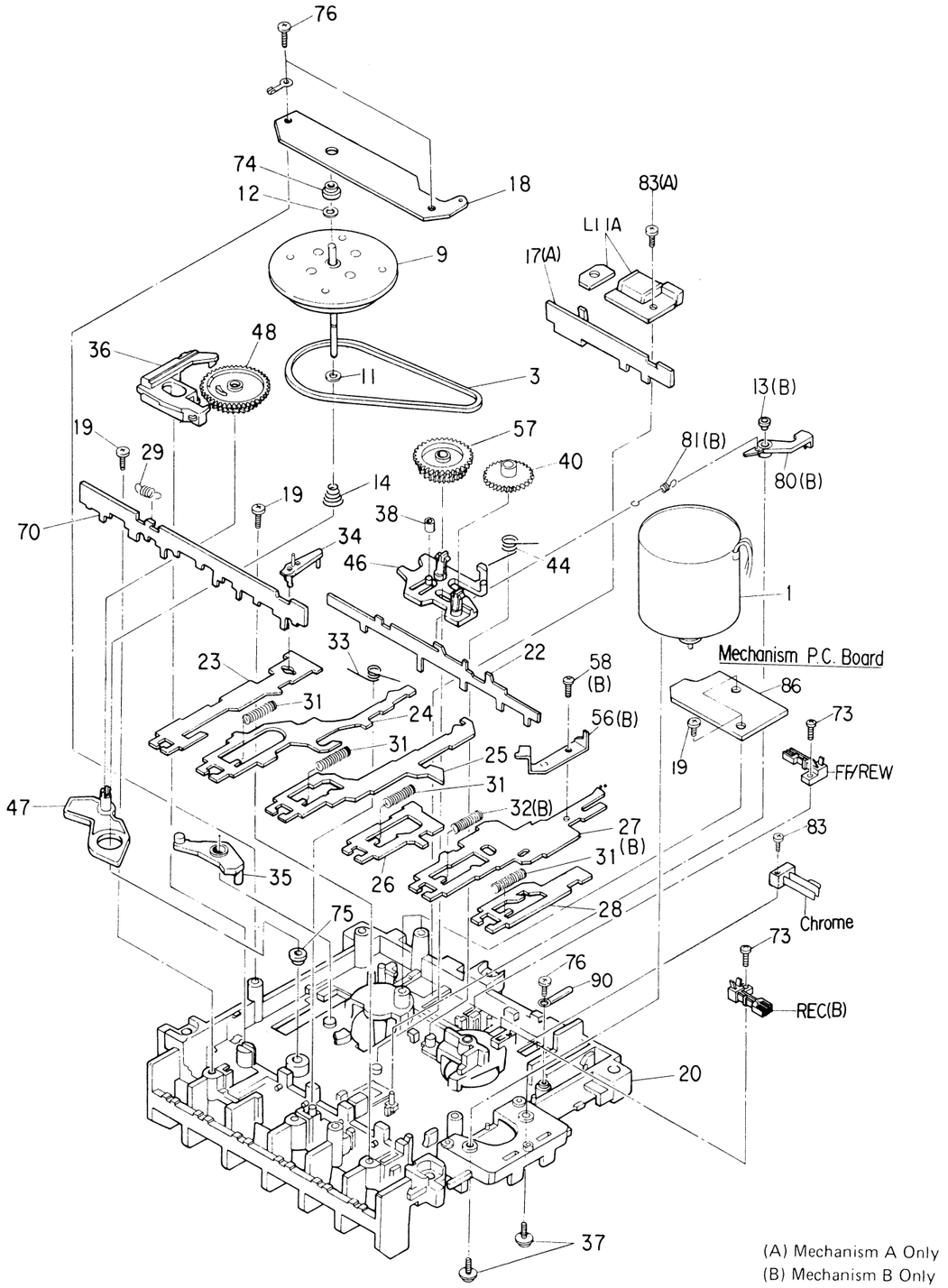
CAUTION:
The ⚠ mark, the Location No. circled with oval in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list.

MECHANISM EXPLODED VIEW (UPPER)



NOTE: Parts excluded in the parts list are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

MECHANISM EXPLODED VIEW (LOWER)



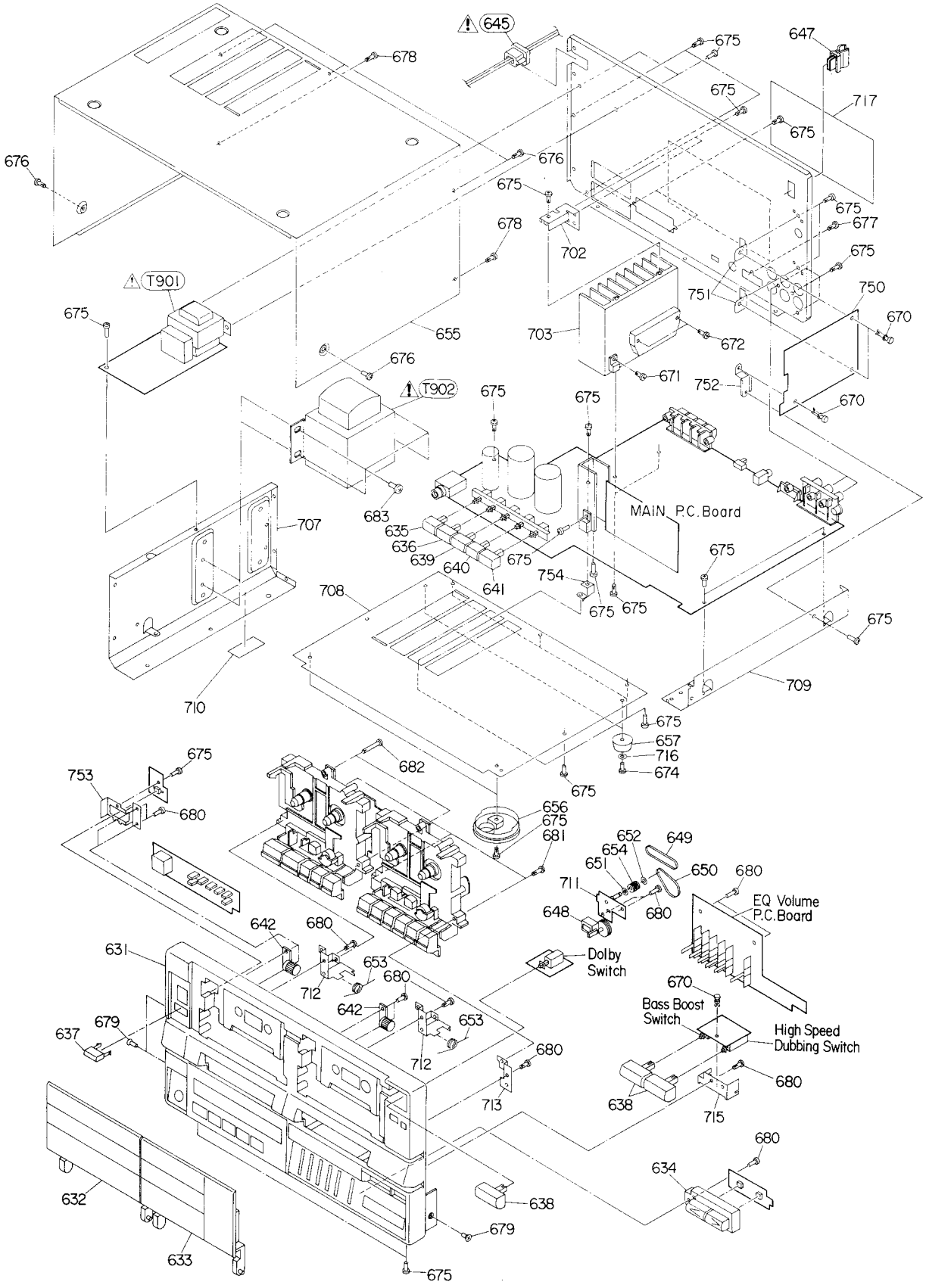
(A) Mechanism A Only
(B) Mechanism B Only

NOTE: Parts excluded in the parts list are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

MECHANICAL PARTS LIST

Location No.	Part No.	Description
1	25792147	MOTOR ASSY, MAIN
3	25759072	BELT
4	22217498	HEAD, RECORD/PLAYBACK
5	22218294	HEAD, ERASE B MECHA
6	25797114	ROLLER ASSY, PRESSURE
7	25754507	REEL PLATE
9	25797144	FLYWHEEL ASSY
11	25766344	WASHER, 2.1X3.4X0.5MM, PO
12	25766337	WASHER, 2.1X5.5X0.3MM, PO
13	25783199	WASHER, 2.0X5.0X1.5MM B MECHA
14	25777606	SPRING
15	25784377	LEVER, REC. LOCK B MECHA
16	25784378	SLIDER, EJECT
19	22707301	SCREW, 2.6X8MM, Z, 12BID
20	25781322	CHASSIS, MECHANISM
21	25752233	HOLDER, FLYWHEEL
29	25776900	SPRING
30	25776938	SPRING
31	25777512	SPRING OPRATION
32	25777513	SPRING B MECHA,REC OP
33	25778353	SPRING
34	25784375	LEVER, PLAY LOCK
35	25784376	LEVER, PAUSE
36	25784381	LEVER, ASO
37	22707174	SCREW, 2.6X6MM, Z, FLPAN
38	25733494	SPACER, 2X2MM
40	25756507	GEAR
42	25777511	SPRING BACK TENSION
43	25778323	SPRING TAKE-UP LEVER
44	25778422	SPRING FAST B LEVER
46	25784379	LEVER, HIGH SPEED
47	25784380	LEVER, TAKE-UP
48	25713599	GEAR ASSY, TAKE-UP
49	22708527	SCREW, 2.0X8MM, Z, BID
51	25776986	SPRING
52	25777137	SPRING
54	25784383	LEVER, ASO DETECT
55	25784385	SLIDER, HEAD B MECHA
57	25793003	GEAR, HIGHT SPEED CLUTCH
58	22707426	SCREW, 2.0X5MM, Z, DTBID B MECHA
59	22708205	SCREW, 1.7X6MM, B, 2TXPAN
60A	25784558	KNOB, STOP A MECHA
60B	25784560	KNOB, STOP B MECHA
61	25784706	KNOB, REC B MECHA
62A	25784705	KNOB, PLAY A MECHA
62B	25784707	KNOB, PLAY B MECHA
63A	25784587	KNOB, REWIND A MECHA
63B	25784563	KNOB, REW B MECHA
64A	25784588	KNOB, FF A MECHA
64B	25784564	KNOB, FF B MECHA
65A	25784589	KNOB, PAUSE A MECHA
65B	25784565	KNOB, PAUSE B MECHA
70	25749127	PLATE, STOP
72	25777564	SPRING BACK TENSION
73	22708783	SCREW, 2.0X7MM, Z, 12PAN
74	25725504	HOLDER, FLYWHEEL
75	25726796	SPACER
76	22707298	SCREW, 2.0X6MM, Z, 12BID
80	25784483	LEVER, RECORD STOP B MECHA
81	25776961	SPRING B MECHA
82	22707299	SCREW, 2.0X8MM, Z, 12BID B MECHA
83	22707303	SCREW, 2.6X10MM, Z, 12BID
84	25779630	GROUND PLATE B MECHA
85	25784493	LEVER, SUB UP B MECHA
87	25784422	LEVER, CHROME DETECTOR
88	25758257	PULLEY, COUNTER

CABINET EXPLODED VIEW



NOTE: Parts excluded in the parts list are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

CABINET PARTS

CAUTION:
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Location No.	Part No.	Description
631	22886038	PANEL ASSY, FRONT
632	25877174	HOLDER ASSY, CASSETTE, A
633	25877175	HOLDER ASSY, CASSETTE, B
634	25888580	BUTTON VOLUME
635	25888558	BUTTON TAPE
636	25888559	BUTTON TUNER
637	25888567	BUTTON POWER
638	25888564	BUTTON BASS/DUB/DOLBY
639	25888560	BUTTON PHONO
640	25888561	BUTTON CD
641	25888562	BUTTON AUX
642	25883246	DAMPER, CASSETTE HOLDER
⚠ 645	25844322	BUSH, CORD
647	22757125	HOLDER, ANTENNA
648	25873316	TAPE COUNTER
649	25759129	BELT, TAPE COUNTER
650	25759130	BELT, TAPE COUNTER
651	25766433	WASHER, 2.5X5.0X0.1MM, PO
652	25766434	WASHER, 1.6X4.0X0.5MM, PO
653	25775341	SPRING, EJECT
654	22742385	PULLEY
655	20015572	TOP COVER
656	20842405	FOOT
657	20842201	FOOT
670	22705022	PLASTIC RIVET, 3.0X5.5MM
671	22707979	SCREW, 2.6X8MM, Z, 2DTBID
672	22708034	SCREW, 2.6X16MM, B, 2DTBID
674	22708544	SCREW, 3.0X10MM, Z, BID
675	22707842	SCREW, 3.0X8MM, Z, 2DTBID
676	22707910	SCREW, 3.0X6MM, Z, 2DTBID
677	22708999	SCREW, 3.0X8MM, B, 2DTPAN
678	22707885	SCREW, 3.0X8MM, B, 2DTBID
679	22707909	SCREW, 3.0X8MM, Z, 2DTFLT
680	22707826	SCREW, 3.0X10MM, Z, 2DTBID
681	22708800	SCREW, 3.0X14MM, B, 2DTBID
682	22707865	SCREW, 3.0X20MM, DTBID
683	22707040	SCREW, 4.0X6MM, B, BID

PARTS LIST

CAUTION:
The ⚠ mark, the Location No. circled with oval in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list.

ABBREVIATIONS

1. **CAPACITOR:** CD — Ceramic Disk, PF — Plastic Film, BL — Barrier Layer, EL — Electrolytic, MY — Mylar, PP — Polypropylene, PS — Polystyrene, TT — Tantalum, PE — Polyethylene
   MFD — Microfarad, PF — Picofarad, V — Voltage, NP — Non Polarity
2. **RESISTOR:** CF — Carbon Film, CC — Carbon Composition, OMF — Oxide Metal Film, MF — Metal Film
   K — Kilo (1000), M — Mega (1000000)
3. **TOLERANCE**

Symbol	F	G	J	K	M	N	Z	P
%	±1	±2	±5	±10	±20	±30	−20+80	0+100

Symbol	C	D
pF	±0.25	±0.5

IC/TRANSISTORS

Location No.	Part No.	Description
Q11A	A6534060	TRANSISTOR, 2SA1015-GR
Q11B	A6534060	TRANSISTOR, 2SA1015-GR
Q301	B0350510	IC, TA75558S
Q303	A6325825	TRANSISTOR, 2SC2240-GR
Q304	A6325825	TRANSISTOR, 2SC2240-GR
Q305	A6317460	TRANSISTOR, 2SC1815-GR
Q306	A6317460	TRANSISTOR, 2SC1815-GR
Q401	B0358475	IC, TA7796Z
Q402	B0358475	IC, TA7796Z
Q501	A6325825	TRANSISTOR, 2SC2240-GR
Q502	A6325825	TRANSISTOR, 2SC2240-GR
Q503	B0411545	IC, TC9154AP
Q504	B0350510	IC, TA75558S
Q551	22128103	IC, STK4142II
Q553	A6044630	TRANSISTOR, 2SK246-GR, FET
Q554	A6044630	TRANSISTOR, 2SK246-GR, FET
Q555	A6534060	TRANSISTOR, 2SA1015-GR
Q556	A6534060	TRANSISTOR, 2SA1015-GR
Q557	A6534060	TRANSISTOR, 2SA1015-GR
Q558	A6317460	TRANSISTOR, 2SC1815-GR
Q601	A6317460	TRANSISTOR, 2SC1815-GR
Q602	A6317460	TRANSISTOR, 2SC1815-GR
Q603	A6044630	TRANSISTOR, 2SK246-GR, FET
Q604	A6044630	TRANSISTOR, 2SK246-GR, FET
Q605	A6317460	TRANSISTOR, 2SC1815-GR
Q606	A6317460	TRANSISTOR, 2SC1815-GR
Q607	A6342200	TRANSISTOR, 2SC2878-A
Q608	A6342200	TRANSISTOR, 2SC2878-A
Q609	A6342200	TRANSISTOR, 2SC2878-A
Q610	A6342200	TRANSISTOR, 2SC2878-A
Q611	A6342200	TRANSISTOR, 2SC2878-A
Q612	A6342200	TRANSISTOR, 2SC2878-A
Q613	A6044630	TRANSISTOR, 2SK246-GR, FET
Q614	A6044630	TRANSISTOR, 2SK246-GR, FET
Q615	A6317460	TRANSISTOR, 2SC1815-GR
Q616	A6317460	TRANSISTOR, 2SC1815-GR
Q617	A6044630	TRANSISTOR, 2SK246-GR, FET
Q618	A6044630	TRANSISTOR, 2SK246-GR, FET
Q619	A6040910	TRANSISTOR, 2SJ103-GR
Q620	A6040910	TRANSISTOR, 2SJ103-GR
Q621	A6044630	TRANSISTOR, 2SK246-GR, FET
Q622	A6044630	TRANSISTOR, 2SK246-GR, FET
Q623	A6044630	TRANSISTOR, 2SK246-GR, FET
Q624	A6044630	TRANSISTOR, 2SK246-GR, FET
Q625	A6314479	TRANSISTOR, 2SC1627A-Y(C)
Q626	A6534060	TRANSISTOR, 2SA1015-GR
Q627	A6317460	TRANSISTOR, 2SC1815-GR
Q628	A6534060	TRANSISTOR, 2SA1015-GR
Q629	A6317460	TRANSISTOR, 2SC1815-GR
Q631	A6534060	TRANSISTOR, 2SA1015-GR
Q632	B0358350	IC, TA7784P
Q633	B0377810	IC, TA8135P
Q634	22128331	IC, CXA1163P
Q635	A6534060	TRANSISTOR, 2SA1015-GR
Q636	A6317460	TRANSISTOR, 2SC1815-GR
Q730	A6534060	TRANSISTOR, 2SA1015-GR
Q731	A6317460	TRANSISTOR, 2SC1815-GR
Q732	A6317460	TRANSISTOR, 2SC1815-GR
Q733	A6317460	TRANSISTOR, 2SC1815-GR
Q734	A6534060	TRANSISTOR, 2SA1015-GR
Q735	A6321240	TRANSISTOR, 2SC2120-Y
Q736	A6317460	TRANSISTOR, 2SC1815-GR
Q737	A6321240	TRANSISTOR, 2SC2120-Y
Q738	A6534060	TRANSISTOR, 2SA1015-GR
Q739	A6317460	TRANSISTOR, 2SC1815-GR
Q740	A6317460	TRANSISTOR, 2SC1815-GR
Q741	A6534060	TRANSISTOR, 2SA1015-GR
Q742	A6317460	TRANSISTOR, 2SC1815-GR
Q743	A6317460	TRANSISTOR, 2SC1815-GR
Q744	A6317460	TRANSISTOR, 2SC1815-GR
Q745	A6317460	TRANSISTOR, 2SC1815-GR
Q746	A6317460	TRANSISTOR, 2SC1815-GR
Q747	A6321240	TRANSISTOR, 2SC2120-Y
Q748	A6321240	TRANSISTOR, 2SC2120-Y
Q749	A6534060	TRANSISTOR, 2SA1015-GR
Q750	A6534060	TRANSISTOR, 2SA1015-GR
Q751	B0325320	IC, TA7341P
Q801	22128670	IC, TMP47C231AN-4937Z
Q802	B0487511	IC, TC74HC4511P
Q804	22117550	IC, PST520D
Q805	A6534060	TRANSISTOR, 2SA1015-GR

AUSTRALIA

Location No.	Part No.	Description
Q806	A6317460	TRANSISTOR, 2SC1815-GR AUSTRALIA
Q807	A6534060	TRANSISTOR, 2SA1015-GR
Q808	22117931	IC, BX1407-RM
Q901	A6753140	TRANSISTOR, 2SC982TM
Q902	A6868020	TRANSISTOR, 2SD1406-Y
Q903	A6533247	TRANSISTOR, 2SA966-Y(C)
Q904	A6868020	TRANSISTOR, 2SD1406-Y
Q905	A6325540	TRANSISTOR, 2SC2236-Y
Q906	A6868020	TRANSISTOR, 2SD1406-Y

DIODE

D551	A7160610	DIODE, 1SS178
D552	A7160610	DIODE, 1SS178
D553	A7160570	DIODE, 1SS176
D554	A7160570	DIODE, 1SS176
D601	A7160610	DIODE, 1SS178
D602	A7160610	DIODE, 1SS178
D603	A7160610	DIODE, 1SS178
D604	A7160610	DIODE, 1SS178
D605	A7160610	DIODE, 1SS178
D606	A7160610	DIODE, 1SS178
D730	A7160570	DIODE, 1SS176
D731	A7160570	DIODE, 1SS176
D732	A7160570	DIODE, 1SS176
D733	A7160570	DIODE, 1SS176
D734	A7160570	DIODE, 1SS176
D735	A7160570	DIODE, 1SS176
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D737	A7160570	DIODE, 1SS176
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D740	A7160570	DIODE, 1SS176
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D742	A7160570	DIODE, 1SS176
D743	A7160570	DIODE, 1SS176
D744	A7160570	DIODE, 1SS176
D745	A7160570	DIODE, 1SS176
D746	A7160570	DIODE, 1SS176
D747	A7160570	DIODE, 1SS176
D748	A7160570	DIODE, 1SS176
D749	A7160570	DIODE, 1SS176
D750	A7160570	DIODE, 1SS176
D751	A7160570	DIODE, 1SS176
D752	A7160570	DIODE, 1SS176
D753	A7160570	DIODE, 1SS176
D754	A7160570	DIODE, 1SS176
D755	A7160570	DIODE, 1SS176
D756	A7160570	DIODE, 1SS176
D757	A7112640	DIODE, 05AZ7.5-Y, ZENER
D801	A7160570	DIODE, 1SS176 AUSTRALIA
D802	A7160570	DIODE, 1SS176
D803	A7160570	DIODE, 1SS176
D804	A7160570	DIODE, 1SS176
D805	A7160570	DIODE, 1SS176
D806	A7160570	DIODE, 1SS176
D807	A8608850	DIODE, TLY208, LED
D808	A8608850	DIODE, TLY208, LED
D809	A8608850	DIODE, TLY208, LED
D810	A8608850	DIODE, TLY208, LED
D811	A8608850	DIODE, TLY208, LED
D812	A8603140	DIODE, TLR208, LED
D813	A8608850	DIODE, TLY208, LED
D901	A7990200	DIODE, S5688B
D902	A7160570	DIODE, 1SS176
⚠ D903	22119430	DIODE, KBP02M(L)
⚠ D904	A7671006	DIODE, 4B4B41
⚠ D905	22119430	DIODE, KBP02M(L)
D906	A7113040	DIODE, 05AZ12-Y, ZENER
D907	A7113040	DIODE, 05AZ12-Y, ZENER
D908	A7112470	DIODE, 05AZ6.2-X, ZENER
D909	A7113040	DIODE, 05AZ12-Y, ZENER
D910	A7112880	DIODE, 05AZ10-Y, ZENER

ELECTRICAL PARTS

⚠ EP01	22176286	POWER CORD EUROPE
⚠ EP01	22176588	POWER CORD AUSTRALIA
⚠ EP01	22176628	POWER CORD U.K
EP02	22165047	HOLDER, FUSE
⚠ F901	22144387	FUSE, 250V, 800MA EUROPE/AUSTRALIA
⚠ F901	22144513	FUSE, 250V, 800MA, TIME LUG U.K
J001	22198334	JACK, US-6P PHONO-CD-AUX
J002	22186141	CONNECTOR, 10P CONTROL, TUNER
J003	22163826	JACK, 3.5MM PLAYER POWER
J004	22162573	TERMINAL, 4P SPEAKER
J005	22198313	JACK, 6.0MM HEADPHONE
J011	22198236	JACK, 3.5MM CD (DATA/SYNCRO)
L11A	22147297	SOLENOID
L551	22210152	CHOKE COIL, 4UH
L552	22210152	CHOKE COIL, 4UH
L801	22291195	CHOKE COIL, 470UH
⚠ P901	22118223	IC PROTECTOR, ICP-F75-2.7A
S11A	22195983	LEAF SWITCH CHROME

Location No.	Part No.	Description
S11B	22195983	LEAF SWITCH CHROME
S12B	22196323	LEAF SWITCH REC
S13A	22196064	LEAF SWITCH FF/REW
S13B	22196064	LEAF SWITCH FF/REW
S14A	22196641	LEAF SWITCH PLAY
S14B	22196641	LEAF SWITCH PLAY
S301	22196999	PUSH SWITCH FUNCTION
S601	22108107	SLIDE SWITCH BEAT PROOF
S602	22196948	PUSH SWITCH DOLBY ON-OFF
S603	22196949	PUSH SWITCH HIGH DUBBING
S604	22196948	PUSH SWITCH SUPER BASS
S605	22196490	KEY SWITCH POWER
S606	22196773	KEY SWITCH VOLUME UP
S607	22196773	KEY SWITCH VOLUME DOWN
T601	22235274	COIL, OSCILLATOR
⚠ T901	22225093	POWER TRANSFORMER SUB, U.K
⚠ T901	22225094	POWER TRANSFORMER SUB, EUROPE
⚠ T901	22225096	POWER TRANSFORMER SUB, AUSTRALIA
⚠ T902	22225066	POWER TRANSFORMER MAIN, U.K
⚠ T902	22225067	POWER TRANSFORMER MAIN, EUROPE
⚠ T902	22225068	POWER TRANSFORMER MAIN, AUSTRALIA
Z601	22153278	FILTER, DOLBY W
Z602	22153278	FILTER, DOLBY W
Z603	22153229	FILTER, BIAS TRAP, 85KHZ
Z604	22153229	FILTER, BIAS TRAP, 85KHZ
Z801	22153443	OSCILLATOR, CERAMIC, 4.19MHZ
⚠ Z901	22148145	RELAY, AC12V

CAPACITORS

C11A	20414221	EL, 220MFD, 10V
C11B	20414221	EL, 220MFD, 10V
C128	20343473	CD, 0.047MFD, 50V, K
C12A	20341473	CD, 0.047MFD, 50V, Z
C12B	20341473	CD, 0.047MFD, 50V, Z
C301	20418339	EL, 3.3MFD, 50V
C302	20418339	EL, 3.3MFD, 50V
C303	20371222	MY, 2200PF, 50V, J
C304	20371222	MY, 2200PF, 50V, J
C305	20371822	MY, 8200PF, 50V, J
C306	20371822	MY, 8200PF, 50V, J
C307	20417330	EL, 33MFD, 35V
C308	20417330	EL, 33MFD, 35V
C309	20418339	EL, 3.3MFD, 50V
C310	20418339	EL, 3.3MFD, 50V
C311	20418100	EL, 10MFD, 50V
C312	20418100	EL, 10MFD, 50V
C313	20341223	CD, 0.022MFD, 50V, Z
C314	20341223	CD, 0.022MFD, 50V, Z
C315	20418109	EL, 1MFD, 50V
C316	20418109	EL, 1MFD, 50V
C317	20418339	EL, 3.3MFD, 50V
C318	20418339	EL, 3.3MFD, 50V
C319	20416221	EL, 220MFD, 25V
C321	20343102	CD, 1000PF, 50V, K
C322	20343102	CD, 1000PF, 50V, K
C323	20343561	CD, 560PF, 50V, K
C324	20343561	CD, 560PF, 50V, K
C325	20343473	CD, 0.047MFD, 50V, K
C401	20418339	EL, 3.3MFD, 50V
C402	20418339	EL, 3.3MFD, 50V
C403	20371333	MY, 0.033MFD, 50V, J
C404	20371333	MY, 0.033MFD, 50V, J
C405	20418229	EL, 2.2MFD, 50V
C406	20418229	EL, 2.2MFD, 50V
C407	20371123	MY, 0.012MFD, 50V, J
C408	20371123	MY, 0.012MFD, 50V, J
C409	20418338	EL, 0.33MFD, 50V
C410	20418338	EL, 0.33MFD, 50V
C411	20371272	MY, 2700PF, 50V, J
C412	20371272	MY, 2700PF, 50V, J
C413	20418108	EL, 0.1MFD, 50V
C414	20418108	EL, 0.1MFD, 50V
C415	20343681	CD, 680PF, 50V, K
C416	20343681	CD, 680PF, 50V, K
C417	20371273	MY, 0.027MFD, 50V, J
C418	20371273	MY, 0.027MFD, 50V, J
C419	20343271	CD, 270PF, 50V, K
C420	20343271	CD, 270PF, 50V, K
C421	20371822	MY, 8200PF, 50V, J
C422	20371822	MY, 8200PF, 50V, J
C423	20415330	EL, 33MFD, 16V
C424	20415330	EL, 33MFD, 16V
C425	20343471	CD, 470PF, 50V, K
C426	20343471	CD, 470PF, 50V, K
C427	20418478	EL, 0.47MFD, 50V
C428	20418478	EL, 0.47MFD, 50V
C429	20343681	CD, 680PF, 50V, K
C430	20343681	CD, 680PF, 50V, K

Location No.	Part No.	Description
C501	20418479	EL, 4.7MFD, 50V
C502	20418479	EL, 4.7MFD, 50V
C503	20311101	CD, 100PF, 50V, J
C504	20311101	CD, 100PF, 50V, J
C505	20418479	EL, 4.7MFD, 50V
C506	20418479	EL, 4.7MFD, 50V
C507	20418479	EL, 4.7MFD, 50V
C508	20418479	EL, 4.7MFD, 50V
C509	20418109	EL, 1MFD, 50V
C510	20418109	EL, 1MFD, 50V
C511	20418479	EL, 4.7MFD, 50V
C512	20418479	EL, 4.7MFD, 50V
C513	20415331	EL, 330MFD, 16V
C514	20343331	CD, 330PF, 50V, K
C515	20343331	CD, 330PF, 50V, K
C516	20343331	CD, 330PF, 50V, K
C517	20418479	EL, 4.7MFD, 50V
C518	20418479	EL, 4.7MFD, 50V
C519	20418100	EL, 10MFD, 50V
C520	20418100	EL, 10MFD, 50V
C521	20415101	EL, 100MFD, 16V
C522	20415331	EL, 330MFD, 16V
C523	20371560	MY, 56PF, 50V, J
C524	20371560	MY, 56PF, 50V, J
C525	20343101	CD, 100PF, 50V, K
C526	20343101	CD, 100PF, 50V, K
C527	20343101	CD, 100PF, 50V, K
C528	20343101	CD, 100PF, 50V, K
C529	20341473	CD, 0.047MFD, 50V, Z
C551	20343471	CD, 470PF, 50V, K
C552	20343471	CD, 470PF, 50V, K
C553	20418220	EL, 22MFD, 50V
C554	20418220	EL, 22MFD, 50V
C555	20371332	MY, 3300PF, 50V, J
C556	20371332	MY, 3300PF, 50V, J
C557	20416470	EL, 47MFD, 25V
C558	20416470	EL, 47MFD, 25V
C559	20417101	EL, 100MFD, 35V
C560	20371104	MY, 0.1MFD, 50V, J
C561	20418100	EL, 10MFD, 50V
C563	20371223	MY, 0.022MFD, 50V, J
C564	20371223	MY, 0.022MFD, 50V, J
C565	20371223	MY, 0.022MFD, 50V, J
C566	20371223	MY, 0.022MFD, 50V, J
C567	20371104	MY, 0.1MFD, 50V, J
C568	20371104	MY, 0.1MFD, 50V, J
C569	20341473	CD, 0.047MFD, 50V, Z
C570	20341473	CD, 0.047MFD, 50V, Z
C571	20416470	EL, 47MFD, 25V
C572	20418220	EL, 22MFD, 50V
C573	20418100	EL, 10MFD, 50V
C574	20418100	EL, 10MFD, 50V
C575	20418109	EL, 1MFD, 50V
C577	20343561	CD, 560PF, 50V, K
C578	20343561	CD, 560PF, 50V, K
C579	20343221	CD, 220PF, 50V, K
C580	20343221	CD, 220PF, 50V, K
C581	20343332	CD, 3300PF, 50V, K
C582	20343332	CD, 3300PF, 50V, K
C583	20343471	CD, 470PF, 50V, K
C584	20343471	CD, 470PF, 50V, K
C601	20418109	EL, 1MFD, 50V
C602	20418109	EL, 1MFD, 50V
C603	20343471	CD, 470PF, 50V, K
C604	20343471	CD, 470PF, 50V, K
C605	20343471	CD, 470PF, 50V, K
C606	20343471	CD, 470PF, 50V, K
C607	20343102	CD, 1000PF, 50V, K
C608	20343102	CD, 1000PF, 50V, K
C609	20343101	CD, 100PF, 50V, K
C610	20343101	CD, 100PF, 50V, K
C611	20343101	CD, 100PF, 50V, K
C612	20343101	CD, 100PF, 50V, K
C613	20371103	MY, 0.01MFD, 50V, J
C614	20371103	MY, 0.01MFD, 50V, J
C615	20415220	EL, 22MFD, 16V
C616	20415220	EL, 22MFD, 16V
C617	20418479	EL, 4.7MFD, 50V
C618	20418479	EL, 4.7MFD, 50V
C619	20415100	EL, 10MFD, 16V
C620	20415100	EL, 10MFD, 16V
C621	20416330	EL, 33MFD, 25V
C622	20371103	MY, 0.01MFD, 50V, J
C623	20415221	EL, 220MFD, 16V
C625	20371102	MY, 1000PF, 50V, J
C626	20371102	MY, 1000PF, 50V, J
C627	20418109	EL, 1MFD, 50V
C628	20418109	EL, 1MFD, 50V
C629	20418109	EL, 1MFD, 50V
C630	20418109	EL, 1MFD, 50V
C631	20418479	EL, 4.7MFD, 50V
C632	20418479	EL, 4.7MFD, 50V
C633	22480008	EL, 0.68MFD, 50V
C634	22480008	EL, 0.68MFD, 50V
C635	20418479	EL, 4.7MFD, 50V
C636	20418479	EL, 4.7MFD, 50V
C637	20418100	EL, 10MFD, 50V
C638	20415101	EL, 100MFD, 16V
C639	20415101	EL, 100MFD, 16V
C641	20418479	EL, 4.7MFD, 50V
C642	20418479	EL, 4.7MFD, 50V
C643	20371222	MY, 2200PF, 50V, J
C644	20371222	MY, 2200PF, 50V, J
C645	20311390	CD, 39PF, 50V, J
C646	20311390	CD, 39PF, 50V, J
C647	20343331	CD, 330PF, 50V, K
C648	20343331	CD, 330PF, 50V, K
C649	20343331	CD, 330PF, 50V, K
C650	20343331	CD, 330PF, 50V, K
C651	20418479	EL, 4.7MFD, 50V
C652	20418479	EL, 4.7MFD, 50V

Location No.	Part No.	Description
C653	20418479	EL, 4.7MFD, 50V
C654	20418479	EL, 4.7MFD, 50V
C655	20418479	EL, 4.7MFD, 50V
C656	20418479	EL, 4.7MFD, 50V
C657	20418109	EL, 1MFD, 50V
C658	20415101	EL, 100MFD, 16V
C659	20415101	EL, 100MFD, 16V
C660	20418109	EL, 1MFD, 50V
C661	20343561	CD, 560PF, 50V, K
C662	20343561	CD, 560PF, 50V, K
C663	20418109	EL, 1MFD, 50V
C664	20341223	CD, 0.022MFD, 50V, Z
C665	20418109	EL, 1MFD, 50V
C666	20418109	EL, 1MFD, 50V
C667	20311180	CD, 18PF, 50V, J
C668	20311180	CD, 18PF, 50V, J
C669	20343101	CD, 100PF, 50V, K
C670	20343101	CD, 100PF, 50V, K
C671	20418109	EL, 1MFD, 50V
C672	20371103	MY, 0.01MFD, 50V, J
C673	20371103	MY, 0.01MFD, 50V, J
C674	20416221	EL, 220MFD, 25V
C675	20381182	PP, 1800PF, 100V, J
C676	20381151	PP, 150PF, 100V, J
C677	20415101	EL, 100MFD, 16V
C678	20341223	CD, 0.022MFD, 50V, Z
C730	20415100	EL, 10MFD, 16V
C731	20341223	CD, 0.022MFD, 50V, Z
C732	20415100	EL, 10MFD, 16V
C733	20371153	MY, 0.015MFD, 50V, J
C734	20371102	MY, 1000PF, 50V, J
C735	20371104	MY, 0.1MFD, 50V, J
C736	20415100	EL, 10MFD, 16V
C801	20415101	EL, 100MFD, 16V
C802	20418479	EL, 4.7MFD, 50V
C803	20343331	CD, 330PF, 50V, K
C804	20343331	CD, 330PF, 50V, K
C805	20418338	EL, 0.33MFD, 50V
C806	20343331	CD, 330PF, 50V, K
C807	20343102	CD, 1000PF, 50V, K
C808	20343102	CD, 1000PF, 50V, K
C809	20343102	CD, 1000PF, 50V, K
C810	20343102	CD, 1000PF, 50V, K
C815	20343102	CD, 1000PF, 50V, K
C866	20343331	CD, 330PF, 50V, K
⚠C901	22340226	CD, 4700PF, 400V, M
C902	20418478	EL, 0.47MFD, 50V
C903	20416102	EL, 1000MFD, 25V
C904	20341223	CD, 0.022MFD, 50V, Z
C905	20341223	CD, 0.022MFD, 50V, Z
C906	20341223	CD, 0.022MFD, 50V, Z
C907	20371223	MY, 0.022MFD, 50V, J
C908	20418100	EL, 10MFD, 50V
C909	20418100	EL, 10MFD, 50V
C910	20410022	EL, 4700MFD, 42V
C911	20410022	EL, 4700MFD, 42V
C912	20416332	EL, 3300MFD, 25V
C913	20415330	EL, 33MFD, 16V
C914	20415101	EL, 100MFD, 16V
C917	20415101	EL, 100MFD, 16V
C918	20415101	EL, 100MFD, 16V
C919	20415101	EL, 100MFD, 16V
C920	20415101	EL, 100MFD, 16V
C921	20415101	EL, 100MFD, 16V

RESISTORS

R11A	22543563	CF, 56K OHM, 1/8W, J
R11B	22543563	CF, 56K OHM, 1/8W, J
R12A	22543474	CF, 470K OHM, 1/8W, J
R12B	22543474	CF, 470K OHM, 1/8W, J
R13A	22543101	CF, 100 OHM, 1/8W, J
R13B	22543101	CF, 100 OHM, 1/8W, J
R14A	22658757	VARIABLE, SEMI FIXED, 1K-B A, NORMAL SPEED
R14B	22658757	VARIABLE, SEMI FIXED, 1K-B B, NORMAL SPEED
R15A	22543472	CF, 4.7K OHM, 1/8W, J
R15B	22543472	CF, 4.7K OHM, 1/8W, J
R16A	22658760	VARIABLE, SEMI FIXED, 5K-B A, HI SPEED
R16B	22658760	VARIABLE, SEMI FIXED, 5K-B B, HI SPEED
R301	20512102	CF, 1K OHM, 1/6W, J
R302	20512102	CF, 1K OHM, 1/6W, J
R303	20512473	CF, 47K OHM, 1/6W, J
R304	20512473	CF, 47K OHM, 1/6W, J
R305	20512272	CF, 2.7K OHM, 1/6W, J
R306	20512272	CF, 2.7K OHM, 1/6W, J
R307	20512333	CF, 33K OHM, 1/6W, J
R308	20512333	CF, 33K OHM, 1/6W, J
R309	20512394	CF, 390K OHM, 1/6W, J
R310	20512394	CF, 390K OHM, 1/6W, J
R311	20512102	CF, 1K OHM, 1/6W, J
R312	20512102	CF, 1K OHM, 1/6W, J
R313	20512104	CF, 100K OHM, 1/6W, J
R314	20512104	CF, 100K OHM, 1/6W, J
R315	20512221	CF, 220 OHM, 1/6W, J
R316	20512221	CF, 220 OHM, 1/6W, J
R317	20512103	CF, 10K OHM, 1/6W, J
R318	20512103	CF, 10K OHM, 1/6W, J
R319	20512182	CF, 1.8K OHM, 1/6W, J
R320	20512182	CF, 1.8K OHM, 1/6W, J
R321	20512103	CF, 10K OHM, 1/6W, J
R322	20512103	CF, 10K OHM, 1/6W, J

Location No.	Part No.	Description
R323	20512182	CF, 1.8K OHM, 1/6W, J
R324	20512182	CF, 1.8K OHM, 1/6W, J
R325	20512153	CF, 15K OHM, 1/6W, J
R326	20512153	CF, 15K OHM, 1/6W, J
R327	20512333	CF, 33K OHM, 1/6W, J
R328	20512333	CF, 33K OHM, 1/6W, J
R329	20512333	CF, 33K OHM, 1/6W, J
R330	20512333	CF, 33K OHM, 1/6W, J
R331	20512102	CF, 1K OHM, 1/6W, J
R332	20512102	CF, 1K OHM, 1/6W, J
R333	20512105	CF, 1M OHM, 1/6W, J
R334	20512105	CF, 1M OHM, 1/6W, J
R335	20512472	CF, 4.7K OHM, 1/6W, J
R336	20512472	CF, 4.7K OHM, 1/6W, J
R337	20512152	CF, 1.5K OHM, 1/6W, J
R338	20512152	CF, 1.5K OHM, 1/6W, J
R339	20512473	CF, 47K OHM, 1/6W, J
R340	20512473	CF, 47K OHM, 1/6W, J
R341	20513101	CF, 100 OHM, 1/4W, J
R343	20512472	CF, 4.7K OHM, 1/6W, J
R344	20512472	CF, 4.7K OHM, 1/6W, J
R401	20512472	CF, 4.7K OHM, 1/6W, J
R402	20512472	CF, 4.7K OHM, 1/6W, J
R403	22657512	VARIABLE, 100K OHM, W 63 HZ
R404	22657512	VARIABLE, 100K OHM, W 250 HZ
R405	22657512	VARIABLE, 100K OHM, W 1K HZ
R406	22657512	VARIABLE, 100K OHM, W 4K HZ
R407	22657512	VARIABLE, 100K OHM, W 12K HZ
R408	22657511	VARIABLE, 250K OHM, W BALANCE
R409	20512104	CF, 100K OHM, 1/6W, J
R410	20512104	CF, 100K OHM, 1/6W, J
R411	20512472	CF, 4.7K OHM, 1/6W, J
R412	20512472	CF, 4.7K OHM, 1/6W, J
R501	20512223	CF, 22K OHM, 1/6W, J
R502	20512223	CF, 22K OHM, 1/6W, J
R503	20512683	CF, 68K OHM, 1/6W, J
R504	20512683	CF, 68K OHM, 1/6W, J
R505	20512472	CF, 4.7K OHM, 1/6W, J
R506	20512472	CF, 4.7K OHM, 1/6W, J
R507	20512122	CF, 1.2K OHM, 1/6W, J
R508	20512122	CF, 1.2K OHM, 1/6W, J
R509	20512222	CF, 2.2K OHM, 1/6W, J
R510	20512222	CF, 2.2K OHM, 1/6W, J
R511	20512221	CF, 220 OHM, 1/6W, J
R512	20514821	CF, 820 OHM, 1/4W, J
R513	20512124	CF, 120K OHM, 1/6W, J
R514	20512124	CF, 120K OHM, 1/6W, J
R515	20512823	CF, 82K OHM, 1/6W, J
R516	20512823	CF, 82K OHM, 1/6W, J
R517	20512333	CF, 33K OHM, 1/6W, J
R518	20512333	CF, 33K OHM, 1/6W, J
R519	20512102	CF, 1K OHM, 1/6W, J
R520	20512102	CF, 1K OHM, 1/6W, J
R521	20512104	CF, 100K OHM, 1/6W, J
R522	20512104	CF, 100K OHM, 1/6W, J
R523	20512104	CF, 100K OHM, 1/6W, J
R524	20514821	CF, 820 OHM, 1/4W, J
R525	20512821	CF, 820 OHM, 1/6W, J
R526	20512821	CF, 820 OHM, 1/6W, J
R527	20512392	CF, 3.9K OHM, 1/6W, J
R528	20512392	CF, 3.9K OHM, 1/6W, J
R551	20512823	CF, 82K OHM, 1/6W, J
R552	20512823	CF, 82K OHM, 1/6W, J
R553	20512561	CF, 560 OHM, 1/6W, J
R554	20512561	CF, 560 OHM, 1/6W, J
R555	20512334	CF, 330K OHM, 1/6W, J
R556	20512334	CF, 330K OHM, 1/6W, J
R557	20512104	CF, 100K OHM, 1/6W, J
R558	20512104	CF, 100K OHM, 1/6W, J
R559	20516222	CF, 2.2K OHM, 1/2W, J
R560	20516222	CF, 2.2K OHM, 1/2W, J
R561	20516222	CF, 2.2K OHM, 1/2W, J
R562	20516222	CF, 2.2K OHM, 1/2W, J
⚠ R563	22500122	FUSIBLE, 100 OHM, 1/4W, J
⚠ R564	22500122	FUSIBLE, 100 OHM, 1/4W, J
R565	20512103	CF, 10K OHM, 1/6W, J
R566	20516102	CF, 1K OHM, 1/2W, J
R567	20516102	CF, 1K OHM, 1/2W, J
R568	20512124	CF, 120K OHM, 1/6W, J
R569	20512393	CF, 39K OHM, 1/6W, J
R570	20512182	CF, 1.8K OHM, 1/6W, J
R571	20512333	CF, 33K OHM, 1/6W, J
R572	20513271	CF, 270 OHM, 1/4W, J
R573	20512221	CF, 220 OHM, 1/6W, J
R574	20512221	CF, 220 OHM, 1/6W, J
R575	22500341	WIRE WOUND, 0.22 OHM, 2W, K
R576	22500341	WIRE WOUND, 0.22 OHM, 2W, K
R577	20512473	CF, 47K OHM, 1/6W, J
R578	20512473	CF, 47K OHM, 1/6W, J
R579	20512152	CF, 1.5K OHM, 1/6W, J
R580	20512152	CF, 1.5K OHM, 1/6W, J
R581	20523100	OMF, 10 OHM, 1W, J
R582	20523100	OMF, 10 OHM, 1W, J
R583	20512562	CF, 5.6K OHM, 1/6W, J
R585	20516331	CF, 330 OHM, 1/2W, J
R586	20516331	CF, 330 OHM, 1/2W, J
R587	20512225	CF, 2.2M OHM, 1/6W, J
R588	20512225	CF, 2.2M OHM, 1/6W, J
R601	20512102	CF, 1K OHM, 1/6W, J
R602	20512102	CF, 1K OHM, 1/6W, J
R603	20512104	CF, 100K OHM, 1/6W, J
R604	20512104	CF, 100K OHM, 1/6W, J
R605	22658756	VARIABLE, SEMI FIXED, 500-B PB SENSIT

Location No.	Part No.	Description
R606	22658756	VARIABLE, SEMI FIXED, 500-B PB SENSIT
R607	20512123	CF, 12K OHM, 1/6W, J
R608	20512123	CF, 12K OHM, 1/6W, J
R609	20512274	CF, 270K OHM, 1/6W, J
R610	20512274	CF, 270K OHM, 1/6W, J
R611	20512183	CF, 18K OHM, 1/6W, J
R612	20512183	CF, 18K OHM, 1/6W, J
R613	20512102	CF, 1K OHM, 1/6W, J
R614	20512102	CF, 1K OHM, 1/6W, J
R615	20512104	CF, 100K OHM, 1/6W, J
R616	20512104	CF, 100K OHM, 1/6W, J
R617	20512333	CF, 33K OHM, 1/6W, J
R618	20512104	CF, 100K OHM, 1/6W, J
R619	20512471	CF, 470 OHM, 1/6W, J
R621	20512223	CF, 22K OHM, 1/6W, J
R622	20512223	CF, 22K OHM, 1/6W, J
R623	22658761	VARIABLE, SEMI FIXED, 10K-B PB SENSIT
R624	22658761	VARIABLE, SEMI FIXED, 10K-B PB SENSIT
R625	20512332	CF, 3.3K OHM, 1/6W, J
R626	20512332	CF, 3.3K OHM, 1/6W, J
R627	20512225	CF, 2.2M OHM, 1/6W, J
R628	20512225	CF, 2.2M OHM, 1/6W, J
R629	20512224	CF, 220K OHM, 1/6W, J
R630	20512394	CF, 390K OHM, 1/6W, J
R631	20512474	CF, 470K OHM, 1/6W, J
R633	20512562	CF, 5.6K OHM, 1/6W, J
R634	20512562	CF, 5.6K OHM, 1/6W, J
R635	20512333	CF, 33K OHM, 1/6W, J
R636	20512333	CF, 33K OHM, 1/6W, J
R637	20512332	CF, 3.3K OHM, 1/6W, J
R638	20512332	CF, 3.3K OHM, 1/6W, J
R639	20512472	CF, 4.7K OHM, 1/6W, J
R640	20512472	CF, 4.7K OHM, 1/6W, J
R641	20512332	CF, 3.3K OHM, 1/6W, J
R642	20512332	CF, 3.3K OHM, 1/6W, J
R643	20512433	CF, 43K OHM, 1/6W, J
R644	20512221	CF, 220 OHM, 1/6W, J
R645	20512153	CF, 15K OHM, 1/6W, J
R646	20512153	CF, 15K OHM, 1/6W, J
R647	20512103	CF, 10K OHM, 1/6W, J
R649	20512822	CF, 8.2K OHM, 1/6W, J
R650	20512822	CF, 8.2K OHM, 1/6W, J
R651	22658761	VARIABLE, SEMI FIXED, 10K-B REC/PB SENSIT
R652	22658761	VARIABLE, SEMI FIXED, 10K-B REC/PB SENSIT
R653	20512473	CF, 47K OHM, 1/6W, J
R654	20512473	CF, 47K OHM, 1/6W, J
R655	20512824	CF, 820K OHM, 1/6W, J
R656	20512824	CF, 820K OHM, 1/6W, J
R657	20512104	CF, 100K OHM, 1/6W, J
R658	20512104	CF, 100K OHM, 1/6W, J
R659	20512225	CF, 2.2M OHM, 1/6W, J
R660	20512225	CF, 2.2M OHM, 1/6W, J
R661	20512564	CF, 560K OHM, 1/6W, J
R662	20512564	CF, 560K OHM, 1/6W, J
R663	20512225	CF, 2.2M OHM, 1/6W, J
R664	20512225	CF, 2.2M OHM, 1/6W, J
R665	20512332	CF, 3.3K OHM, 1/6W, J
R666	20512332	CF, 3.3K OHM, 1/6W, J
R667	20512821	CF, 820 OHM, 1/6W, J
R668	20512821	CF, 820 OHM, 1/6W, J
R669	20512333	CF, 33K OHM, 1/6W, J
R670	20512333	CF, 33K OHM, 1/6W, J
R671	20512392	CF, 3.9K OHM, 1/6W, J
R672	20512392	CF, 3.9K OHM, 1/6W, J
R673	20512104	CF, 100K OHM, 1/6W, J
R674	20512104	CF, 100K OHM, 1/6W, J
R675	20512155	CF, 1.5M OHM, 1/6W, J
R676	20512474	CF, 470K OHM, 1/6W, J
R677	20512103	CF, 10K OHM, 1/6W, J
R678	20512102	CF, 1K OHM, 1/6W, J
R679	20512223	CF, 22K OHM, 1/6W, J
R680	20512224	CF, 220K OHM, 1/6W, J
R681	20512333	CF, 33K OHM, 1/6W, J
R682	20512221	CF, 220 OHM, 1/6W, J
R683	20512123	CF, 12K OHM, 1/6W, J
R684	20512334	CF, 330K OHM, 1/6W, J
R685	20512473	CF, 47K OHM, 1/6W, J
R686	20512473	CF, 47K OHM, 1/6W, J
R687	20512333	CF, 33K OHM, 1/6W, J
R688	20512104	CF, 100K OHM, 1/6W, J
R689	20512473	CF, 47K OHM, 1/6W, J
R690	20512473	CF, 47K OHM, 1/6W, J
R691	20512103	CF, 10K OHM, 1/6W, J
R692	20512103	CF, 10K OHM, 1/6W, J
R693	20512104	CF, 100K OHM, 1/6W, J
R694	20512104	CF, 100K OHM, 1/6W, J
R695	20512225	CF, 2.2M OHM, 1/6W, J
R696	20512225	CF, 2.2M OHM, 1/6W, J
R697	20512225	CF, 2.2M OHM, 1/6W, J
R698	20512225	CF, 2.2M OHM, 1/6W, J
R699	20512104	CF, 100K OHM, 1/6W, J
R700	20512104	CF, 100K OHM, 1/6W, J
R701	20512225	CF, 2.2M OHM, 1/6W, J
R702	20512225	CF, 2.2M OHM, 1/6W, J
R703	20512225	CF, 2.2M OHM, 1/6W, J
R704	20512225	CF, 2.2M OHM, 1/6W, J
R705	22658765	VARIABLE, SEMI FIXED, 100K-B REC FREQ
R706	22658765	VARIABLE, SEMI FIXED, 100K-B REC FREQ
R707	20512103	CF, 10K OHM, 1/6W, J
R708	20512474	CF, 470K OHM, 1/6W, J
R709	20512102	CF, 1K OHM, 1/6W, J
R710	20512223	CF, 22K OHM, 1/6W, J
R711	20512103	CF, 10K OHM, 1/6W, J

Location No.	Part No.	Description
R712	20512332	CF, 3.3K OHM, 1/6W, J
R713	20512104	CF, 100K OHM, 1/6W, J
R714	20512390	CF, 39 OHM, 1/6W, J
R715	20513479	CF, 4.7 OHM, 1/4W, J
R716	20516121	CF, 120 OHM, 1/2W, J
R717	20512332	CF, 3.3K OHM, 1/6W, J
R718	20512104	CF, 100K OHM, 1/6W, J
R719	20512104	CF, 100K OHM, 1/6W, J
R720	20512104	CF, 100K OHM, 1/6W, J
R721	20512103	CF, 10K OHM, 1/6W, J
R722	20514103	CF, 10K OHM, 1/4W, J
R723	20512222	CF, 2.2K OHM, 1/6W, J
R724	20512222	CF, 2.2K OHM, 1/6W, J
R725	20512103	CF, 10K OHM, 1/6W, J
R726	20512103	CF, 10K OHM, 1/6W, J
R727	20512332	CF, 3.3K OHM, 1/6W, J
R728	20512332	CF, 3.3K OHM, 1/6W, J
R729	20512103	CF, 10K OHM, 1/6W, J
R730	20512273	CF, 27K OHM, 1/6W, J
R731	20512394	CF, 390K OHM, 1/6W, J
R732	20512474	CF, 470K OHM, 1/6W, J
R733	20512392	CF, 3.9K OHM, 1/6W, J
R734	20512392	CF, 3.9K OHM, 1/6W, J
R735	20512473	CF, 47K OHM, 1/6W, J
R736	20512473	CF, 47K OHM, 1/6W, J
R737	20512473	CF, 47K OHM, 1/6W, J
R738	20512473	CF, 47K OHM, 1/6W, J
R739	20512104	CF, 100K OHM, 1/6W, J
R740	20512223	CF, 22K OHM, 1/6W, J
R741	20512222	CF, 2.2K OHM, 1/6W, J
R742	20512223	CF, 22K OHM, 1/6W, J
R743	20512104	CF, 100K OHM, 1/6W, J
R744	20512472	CF, 4.7K OHM, 1/6W, J
R745	20512222	CF, 2.2K OHM, 1/6W, J
R746	20514473	CF, 47K OHM, 1/4W, J
R747	20512224	CF, 220K OHM, 1/6W, J
R748	20512153	CF, 15K OHM, 1/6W, J
R749	20512224	CF, 220K OHM, 1/6W, J
R750	20512103	CF, 10K OHM, 1/6W, J
R751	20516473	CF, 47K OHM, 1/2W, J
R752	20512104	CF, 100K OHM, 1/6W, J
R753	20512473	CF, 47K OHM, 1/6W, J
R754	20512472	CF, 4.7K OHM, 1/6W, J
R755	20512104	CF, 100K OHM, 1/6W, J
R756	20512104	CF, 100K OHM, 1/6W, J
R757	20512473	CF, 47K OHM, 1/6W, J
R758	20512473	CF, 47K OHM, 1/6W, J
R759	20512473	CF, 47K OHM, 1/6W, J
R760	20512473	CF, 47K OHM, 1/6W, J
R761	20516680	CF, 68 OHM, 1/2W, J
R762	20512473	CF, 47K OHM, 1/6W, J
R763	20512473	CF, 47K OHM, 1/6W, J
R764	20512103	CF, 10K OHM, 1/6W, J
R765	20512223	CF, 22K OHM, 1/6W, J
R766	20512104	CF, 100K OHM, 1/6W, J
R767	20512103	CF, 10K OHM, 1/6W, J
R768	20512333	CF, 33K OHM, 1/6W, J
R769	20512223	CF, 22K OHM, 1/6W, J
R770	20512104	CF, 100K OHM, 1/6W, J
R771	20512222	CF, 2.2K OHM, 1/6W, J
R772	20512104	CF, 100K OHM, 1/6W, J
R773	20512103	CF, 10K OHM, 1/6W, J
R774	20512103	CF, 10K OHM, 1/6W, J
R775	20512100	CF, 10 OHM, 1/6W, J
R776	20512103	CF, 10K OHM, 1/6W, J
R777	20512102	CF, 1K OHM, 1/6W, J
R778	20512473	CF, 47K OHM, 1/6W, J
R780	20512473	CF, 47K OHM, 1/6W, J
R781	20512183	CF, 18K OHM, 1/6W, J
R782	20512152	CF, 1.5K OHM, 1/6W, J
R783	20512473	CF, 47K OHM, 1/6W, J
R784	20512103	CF, 10K OHM, 1/6W, J
R785	20512563	CF, 56K OHM, 1/6W, J
R787	20514100	CF, 10 OHM, 1/4W, J
R788	20512100	CF, 10 OHM, 1/6W, J
R801	20512562	CF, 5.6K OHM, 1/6W, J
R806	20512104	CF, 100K OHM, 1/6W, J
R807	20512562	CF, 5.6K OHM, 1/6W, J EUROPE/U.K
R809	20512334	CF, 330K OHM, 1/6W, J
R811	20512562	CF, 5.6K OHM, 1/6W, J
R812	20512562	CF, 5.6K OHM, 1/6W, J
R813	20512562	CF, 5.6K OHM, 1/6W, J
R814	20512562	CF, 5.6K OHM, 1/6W, J
R815	20512104	CF, 100K OHM, 1/6W, J
R816	20512104	CF, 100K OHM, 1/6W, J
R817	20512331	CF, 330 OHM, 1/6W, J
R818	20512331	CF, 330 OHM, 1/6W, J
R819	20512331	CF, 330 OHM, 1/6W, J
R820	20512331	CF, 330 OHM, 1/6W, J
R821	20512331	CF, 330 OHM, 1/6W, J
R822	20512152	CF, 1.5K OHM, 1/6W, J
R823	20512102	CF, 1K OHM, 1/6W, J
R824	20512334	CF, 330K OHM, 1/6W, J
R825	20512102	CF, 1K OHM, 1/6W, J AUSTRALIA
R826	20512473	CF, 47K OHM, 1/6W, J AUSTRALIA
R827	20512104	CF, 100K OHM, 1/6W, J AUSTRALIA
R828	20512562	CF, 5.6K OHM, 1/6W, J AUSTRALIA
R829	20512104	CF, 100K OHM, 1/6W, J AUSTRALIA
R830	20512223	CF, 22K OHM, 1/6W, J
R831	20512104	CF, 100K OHM, 1/6W, J
R832	20512104	CF, 100K OHM, 1/6W, J
R833	20512104	CF, 100K OHM, 1/6W, J

Location No.	Part No.	Description
R834	20512562	CF, 5.6K OHM, 1/6W, J
R835	20512562	CF, 5.6K OHM, 1/6W, J
R836	20512103	CF, 10K OHM, 1/6W, J
R837	20512104	CF, 100K OHM, 1/6W, J
R839	20512104	CF, 100K OHM, 1/6W, J
R840	20512104	CF, 100K OHM, 1/6W, J
R841	20512104	CF, 100K OHM, 1/6W, J
R842	20512562	CF, 5.6K OHM, 1/6W, J
R843	20512104	CF, 100K OHM, 1/6W, J
R844	20512103	CF, 10K OHM, 1/6W, J
R845	20512103	CF, 10K OHM, 1/6W, J
R846	20512104	CF, 100K OHM, 1/6W, J
R847	20512104	CF, 100K OHM, 1/6W, J
R848	20512104	CF, 100K OHM, 1/6W, J
R849	20512562	CF, 5.6K OHM, 1/6W, J
R850	20512562	CF, 5.6K OHM, 1/6W, J
R851	20512104	CF, 100K OHM, 1/6W, J
R852	20512393	CF, 39K OHM, 1/6W, J
R853	20512103	CF, 10K OHM, 1/6W, J
R854	20512103	CF, 10K OHM, 1/6W, J
R855	20512102	CF, 1K OHM, 1/6W, J
R856	20512103	CF, 10K OHM, 1/6W, J
R901	20512473	CF, 47K OHM, 1/6W, J
R902	20512473	CF, 47K OHM, 1/6W, J
⚠ R903	20531229	FUSIBLE, 2.2 OHM, 1/4W, J
⚠ R904	22500117	FUSIBLE, 220 OHM, 1/4W, J
⚠ R905	22500472	FUSIBLE, 1.2 OHM, 1/4W, J
R906	20512821	CF, 820 OHM, 1/6W, J
R907	20512680	CF, 68 OHM, 1/6W, J
R908	20512821	CF, 820 OHM, 1/6W, J
R909	20512560	CF, 56 OHM, 1/6W, J
R910	20512681	CF, 680 OHM, 1/6W, J
R911	20512680	CF, 68 OHM, 1/6W, J
R912	20512331	CF, 330 OHM, 1/6W, J
R913	20512560	CF, 56 OHM, 1/6W, J
⚠ R914	22500474	FUSIBLE, 0.68 OHM, 1/4W, K
R915	20512681	CF, 680 OHM, 1/6W, J
R916	20514560	CF, 56 OHM, 1/4W, J
R917	20523332	MF, 3.3K OHM, 1W, J
R918	20523332	MF, 3.3K OHM, 1W, J
R919	20523220	OMF, 22 OHM, 1W, J
R920	20512331	CF, 330 OHM, 1/6W, J

ACCESSORIES

Location No.	Part No.	Description
AC01	22120170	REMOTE CONTROL UNIT, RM-V328 EUROPE/U.K
AC01	22120175	REMOTE CONTROL UNIT, RM-V328 AUSTRALIA
AC02	22908685	OWNER"S MANUAL U.K
AC02	22908687	OWNER"S MANUAL EUROPE
AC02	22908815	OWNER"S MANUAL AUSTRALIA